



Iridium & Combined
Iridium, GPS, Thuraya, Inmarsat,
XM, SIRIUS, or WSI

Antennas:
Pictures, Outline Drawings, Specifications





ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501 . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . <http://www.antcom.com>

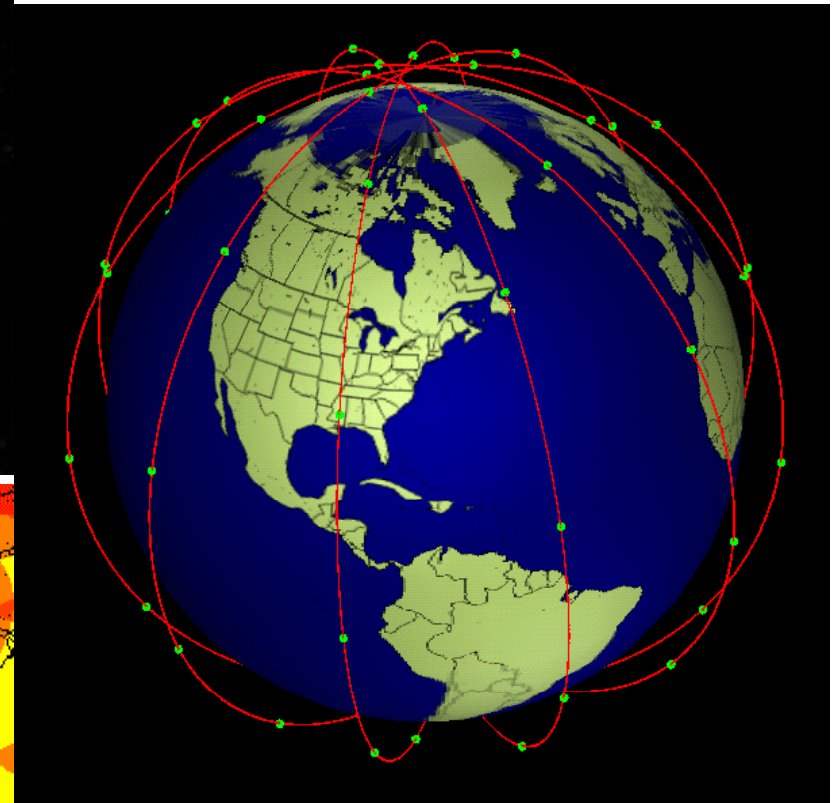
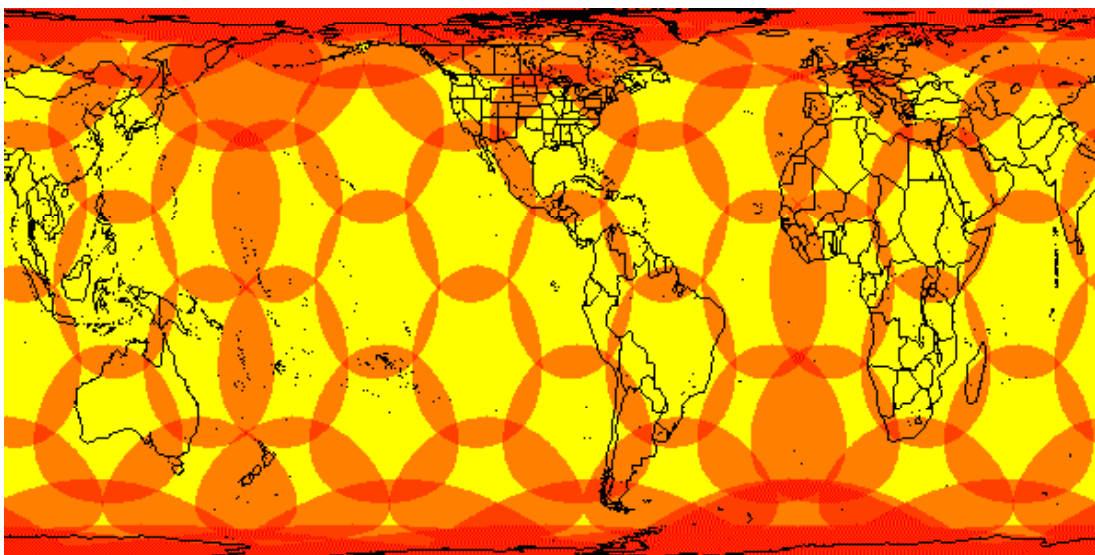


Frequency:

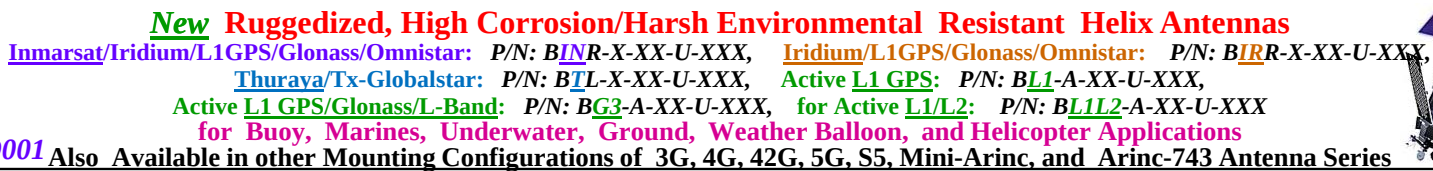
Tx/Rx: (1610.0-1626.6) MHz

Polarization:

Right Hand Circularly Polarized (RHCP)



66 Satellites (6 planes of 11)
in Lower Earth Orbits
(780Km = 484.7mil)



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ELECTRICAL:

FREQUENCY (MHZ):	(1575.42 ±15)	(1542.50 ±17.5)	(1642.50 ±17.5)	(1602-1616)	(1610-1626.5)	(1217.42 ±15)
GAIN (dBc) in FS/4ft GP	L1 GPS	Rx Inmarsat/B1 or Thuraya	Tx Inmarsat or Thuraya	GLONASS	IRIDIUM or Tx Globalstar	L2 GPS for L1/L2 Version
@ 90° (Zenith):	+1.1/+3.7	+0.7/+1.5	-0.3/0.0	+0.5/+2.9	+0.1/+1.1	0.0
@ 10° Elevation:	-0.9/+0.0	-1.6/-1.3	-1.9/-1.0	-1.3/+0.2	-1.6/-0.8	-2.4 to -6.3
@ 20° Elevation:	-0.2/+0.2	-0.8/+1.0	-1.1/+1.2	-0.5/+2.4	-0.8/+1.2	-1.8 to -4.8
@ 30° Elevation:	+0.3/+2.0	-0.2/+1.0	-0.8/+0.4	+0.1/+2.1	-0.7/+1.1	-1.3 to -3.4
@ 45° Elevation:	+0.6/+1.5	+0.3/+0.6	-0.7/-0.8	-0.1/+1.0	-0.3/-0.3	-0.5 to -1.5
@ 70° Elevation:	+0.3/+1.3	+0.3/+0.4	-1.6/0.0	-0.3/+1.1	-0.7/0.0	0.0 to -0.5
BEAM WIDTH (3dB)	173/155 Deg.	173/155 Deg.	180/162 Deg.	180/162 Deg.	180/162 Deg.	120/165 Deg
AXIAL RATIO (dB)	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 5
RADIATION PATTERN:	HEMISPHERICAL					
POLARIZATION:	RHCP	RHCP or LHCP	RHCP or LHCP	RHCP	RHCP or LHCP	RHCP
VSWR:	< 2:1					
DC GROUNDING:	YES (LIGHTNING PROTECTION)					

LNA OPTION (for GNSS or GNSS/Rx only VERSIONS (..-A-..)):

LNA GAIN (OPTION):	33 dB
LNA NOISE FIGURE:	3.0 dB
LNA P1dB Out:	+13 dBm
LNA DC POWER:	(2.5 to 24)V / < 50mA
POWER HANDLING:	PASSIVE:10W; LNA ACTIVE: 1 Watt CW

MECHANICAL:

SIZE: DIAMETER: 2.600in. [66 mm]
HEIGHT: 5.266 in. [133 mm]
WEIGHT: < 8oz. (226g)
FINISH: HERMETICALLY SEAL & TEFLON COATED

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE & RUGGEDIZED RADOME
IMPACT, ABRASION, UV, SOLVENT, SKYDROL,
CORROSION RESISTANCE, AND FIRE RETARDANT

CONNECTOR: TNC FEMALE
(OPTION: TNC-BK, F, SMA, BNC, N, MCX, MMCX)

ENVIRONMENTAL:

TEMPERATURE: -95 °F to +194 °F [-70 °C TO +90 °C]
-2000ft. to +70,000 ft. (for -U-FKM/-U-TPM, from Mounting Surface)

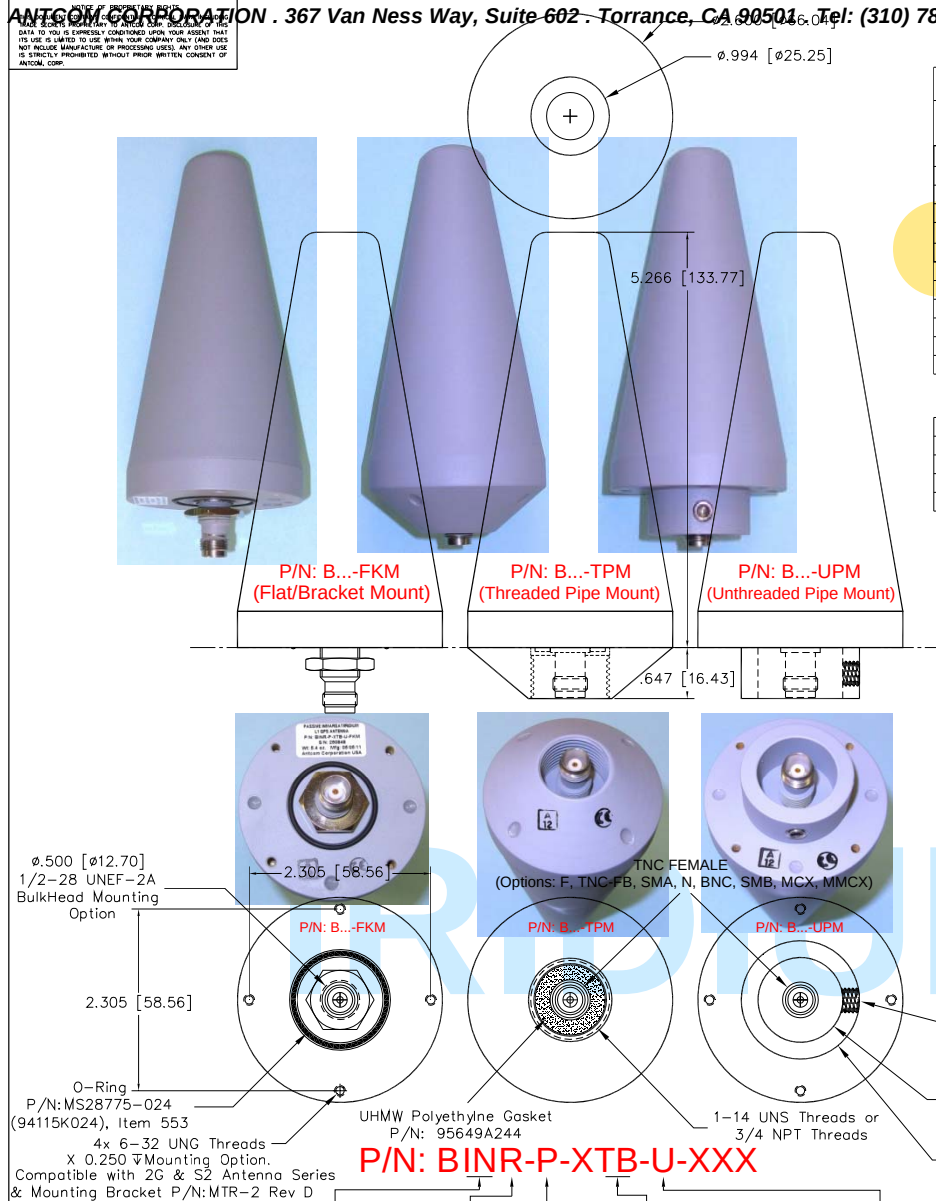
VIBRATION: 30 G's

HERMETICALLY SEAL

FEDERAL & MILITARY SPECIFICATIONS:

FAA TSO-C144, DO-160D, D0-228, MIL-C-5541, MIL-E-5400,
MIL-I-45208A, MIL-STD-810, MIL-STD-461E/F, AND SAE J1455

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100



P/N: BINR-P-XTB-U-XXX

FREQUENCY (GHz):	POLARIZATION:	LNA:	FEMALE CONNECTOR:	COLOR: -U: TEFLON COATED GRAY for MARINES/BUOY APP
IN: Imarsat/Iridium/L1GPS/Glonass (RHPC); IR: Iridium/L1GPS/Glonass (RHPC)	R: RHPC	P: PASSIVE A: with LNA/FILTERS for Rx only VERSIONS	T: TNC; TB: TNC-Bulkhead; F: F	-1: GLOSS WHITE #17925 PER FED-STD-595B PAINT
T: Thuraya/Tx Globalstar (LHCP); G: Tx only Globalstar (LHCP)	L: LHCP		S: SMA; SMA; SMB; B: BNC	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B PAINT
L1: L1 GPS only; G3: L1 GPS/GLONASS/L-Band/B1/B3/2/L5	R: RHPC		M: MCX; MM; MMCX; MMR; MMCX-R	-3: OLIVE DRAB GREEN #34094 PER FED-STD-595B PAINT
G3: L1/2 GPS/GLONASS/L-Band/B1/B3/2/L5	R: RHPC		N: NIN-Bulkhead	-4: LUSTERLESS BLACK #73038 PER FED-STD-595B PAINT
G01: QUAD-BAND (GSM/PCS/L-Band/Locata/Wi-Fi/S-C-Band)	V: Linear (Vertical)		S: SMC, SSMC, SSMB, SSMA	-5: TAN #; FS 23446 or 33446, FED-STD-595 PAINT

1	Additional SILICON GASKET (Item 539a) for -FKM	3G15P1001-2-2G	
	DESCRIPTION	PARTS LIST	PART NO
QUANTITY REQD			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLES ± 1/64 .0005 ± 1°		ANTCOM CORP TOP SECRET Imarsat/Iridium/L1GPS, or Thuraya/Tx-Globalstar or L1-GPS, or L1-GPS/Glonass/L-Band/B1, or L1/L2-GPS, or L1/L2-GPS/Glonass/B1/B3/B2/L5 Antenna	
TOLERANCE SWR PER ANSI Y14.5	CHECKED		
REMOVE ALL BURRS BREAK EXTERNAL EDGES .005 TO .015 FILLET R .005 TO R .030 CSPR THROUGHS PER MIL-S-8879 DAYS AT A COMMA & OFF .005	ENGINEER		
MACHINED SURFACES ¹²⁵	APPROVED S. HUYNH April-11-11	SIZE CASE NO DRAWING NO D 3CVE1 BXXXR-X-XX-X-XXX	REV
DO NOT SCALE DRAWING	CAD FILE NO	SCALE 1/1	SHEET 1 OF 1



New Ruggedized, High Corrosion/Harsh Environmental Resistant Helix/Patch Antennas

Inmarsat/Iridium/ GPS: P/N: **B/INXXRR-PA-XTS-U-XXX**, Iridium/ GPS: P/N: **B/IRXXRR-PA-XTS-U-XXX**,

Thuraya/Tx-Globalstar/ GPS: P/N: **B/TXXLR-PA-XTS-U-XXX**,

Quad-Band (GSM/PCS)/Wi-Fi/S/C-Band/ GPS: P/N: **B/LoLXXVR-PA-XTS-U-XXX**,

for Buoy, Marines, Underwater, Ground, Weather Balloon, and Helicopter Applications

ISO9001 Also Available in other Mounting Configurations of 3G, 4G, 42G, 5G, S5, Mini-Arinc, and Arinc-743 Antenna Series



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Suii

A Ø2.600 [Ø66.04]

Ø.994 [Ø25.25]

5.266 [133.77]

Ø.647 [16.43]

2.305 [58.56]

2.305 [58.56]

Ø.1075 [Ø27.31]

Ø.1500 [Ø38.10]

32-1076 . Fax: (310) 792-0086 E-mail: antennas@antcom.com <http://www.antcom.com>

ELECTRICAL:

GNSS PORT: of either L1, or L1L2, or G3, or G5 Frequencies					COM PORT: of either Inmarsat/Iridium, or Iridium, or Thuraya, or Quad-Band				
L5 GPS E5/E5a/E5b (Galileo) L5 IRNSS	L2 GPS B2 Compass	L2 GLONASS E6 Galileo B3 Compass	Omniport-Band L6 Galileo B1 Compass	L1 GPS E1, E2 Galileo L1 IRNSS	L1 GLONASS Rx Inmarsat or Thuraya	Tx Inmarsat or Thuraya	Iridium or Tx Globalstar	QUAD-BAND (GSM/PCS) L-Band Wi-Fi/S/C-Band	OMNI
1176.4 ± 12 1191.5 ± 27 1176.4 ± 15	1227.60 ± 12 1207.14 ± 10	1252.5 ± 7.5 1278.7 ± 12 1268.5 ± 10	1542.5 ± 14 1542.5 ± 5 1561.1 ± 10	1575.4 ± 15 1575.4 ± 17 1575.4 ± 12	1609 ± 7.0 1542.5 ± 17	1642.5 ± 17	1610-1626.5	824-960 1710-1990 1600-1900 2300-2500 4400-5000	OMNI (2.0-3.5)-1 50 ohms
RADIATION PATTERN: HEMISPHERICAL					RHCP or LHCP				
POLARIZATION: RHCP					RHCP or LHCP				
VSWR: < 2.0:1									
IMPEDANCE: 50 ohms									
ANTENNA GAIN (dBi): Free Space									
@ 90 ° (ZENITH): - 7	+ 0.5	- 0.8	+ 1.9	+ 4.1	+ 2.0	+ 0.7	- 0.3	+ 0.1	
@ 10 ° Elevation: - 13	- 5.6	- 7.1	- 5.0	- 2.8	- 5.1	- 1.6	- 1.9	- 1.6	
@ 20 ° Elevation: - 11	- 3.9	- 5.4	- 3.9	- 1.9	- 1.9	- 0.8	- 1.1	- 0.8	(0-3.8) dBi
@ 30 ° Elevation: - 10	- 2.6	- 4.3	- 2.6	- 0.4	- 2.6	- 0.2	- 0.8	- 0.7	
@ 60 - 90 ° Elevation: > - 8	> - 1	> - 2.4	> + 0.8	> + 0.8	> + 0.8	> + 0.8	> - 1.6	> - 0.7	
BEAM WIDTH (3dB): 105 Deg.	105 Deg.	90 Deg.	95 Deg.	95 Deg.	95 Deg.	173 Deg.	180 Deg.	180 Deg.	OMNI
AXIAL RATIO (dB): 1.5	1	1	1	1	2	1 to 3	1 to 3	1 to 3	N/A
LIGHTNING PROTECTION:					DC GROUNDING				

LNA OPTION (for GNSS or GNSS/COM=Rx only VERSIONS (-A-...)):

LNA GAIN (OPTION):	33 dB
LNA NOISE FIGURE:	3.0 dB
LNA P1dB Out:	+13 dBm
LNA DC POWER:	(2.5 to 24)V / < 50mA
POWER HANDLING:	PASSIVE:10W; LNA ACTIVE: 1 Watt CW

MECHANICAL:

SIZE: DIAMETER: 2.600in. [66 mm]
HEIGHT: 5.266 in. [133 mm]
WEIGHT: < 10oz. (283g)
FINISH: HERMETICALLY SEAL & TEFLON COATED

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE & RUGGEDIZED RADOME
IMPACT, ABRASION, UV, SOLVENT, SKYDROL,
CORROSION RESISTANCE, AND FIRE RETARDANT
CONNECTOR: COM PORT: TNC FEMALE; GNSS PORT: SMA FEMALE
(OPTION: TNC, F, SMA, BNC, N, MCX, MMCX)

ENVIRONMENTAL:

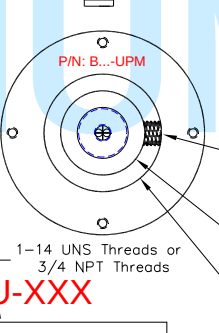
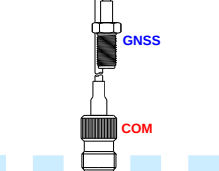
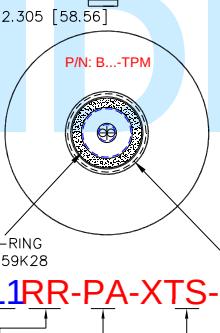
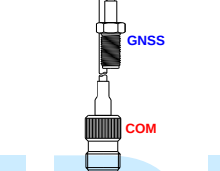
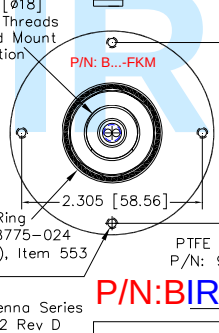
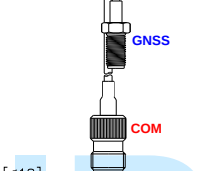
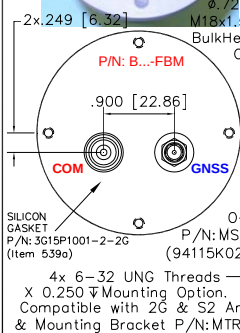
TEMPERATURE: -95 °F TO +194 °F [-70 °C TO +90 °C]
VIBRATION: -2000ft to +70,000 ft. (for -U-FBM/-U-FKM/-U-TPM, from Mounting)
30 G's
HERMETICALLY SEAL

FEDERAL & MILITARY SPECIFICATIONS:

FAA TSO-C144, DO-160D, DO-228, MIL-C-5541, MIL-E-5400,
MIL-I-45208A, MIL-STD-810, MIL-STD-461E/F, AND SAE J1455

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

M8-1.25
Set Screw
P/N: 92015A139
(Item 573)
Ø.1075 [Ø27.31]
will fit in
1-14 UNS PIPE
& 3/4 NPT PIPE
Ø.1500 [Ø38.10]



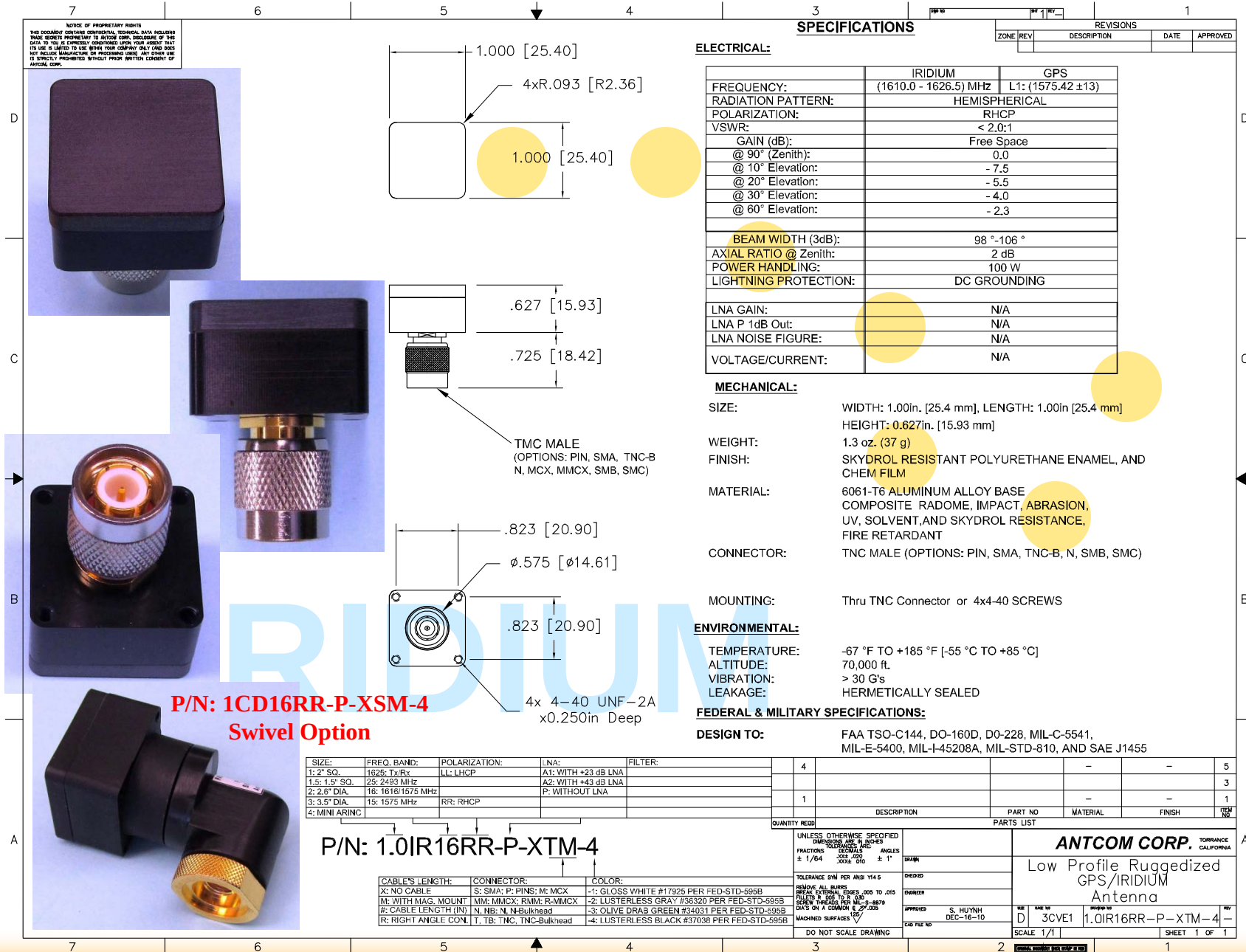
P/N: BIRL1RR-PA-XTS-U-XXX

COM & GNSS FREQUENCY (GHz):		POLARIZATION:	LNA:	COM/GNSS Female Connector:	COLOR:
INL1.COM=Inmarsat/Iridium; GNSS=L1GPS		RR: RHCP/RHCP	P: PASSIVE	T: TNC; F: F	-1: GLOSS WHITE #17925 PER FED-STD-595B PAINT
TL1.COM=Thuraya/Tx-Globalstar; GNSS=L1GPS		LR: LHCP/RHCP	A: with	S: SMA; SMB; SMR; B: BNC	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B PAINT
LoL1.COM=QUAD-BAND (GSM/PCS)/L-Band/Locata/Wi-Fi/S/C-Band; GNSS=L1GPS		VR: Vertical/RHCP	N: N/N-Bulkhead	M: MCX; MM: MMCX/MMR; MMCX-R	-3: OLIVE DRAB GREEN #34094 PER FED-STD-595B PAINT
Change "L1" to "L1L2" for GNSS= L1/L2 GPS, to "G3" for GNSS= L1GPS/Glonass/L-Band/B1			Rx only VERSIONS	N: N/N-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B PAINT
to "G5" for GNSS= L1/L2 GPS/Glonass/L-Band/B1/B3/B2/L5				SMC, SSMC, SSMB, SSMA	-5: TAN #1: FS 23446 or 33446, FED-STD-595 PAINT

1		Additional SILICON GASKET (Item 539a) for -FBM/-FKM		3G15P1001-2-2G	
		DESCRIPTION		PART NO	
QUANTITY REQD		PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLES ± 1/64 .xxx. .005 ± 1°		ANTCOM CORP. TORONTO, CANADA (Imarsat/Idiom, or Idium, or Thuraya/Tx-Globstar or Tx-Globstar or Quad-Band (GSM/PCS/L-Band/Locata/Wi-Fi/SC-Band) & (L1-GPS, or L1-GPS/Glonass/L-Band/B1, or L1/L2-GPS, or L1/L2-GPS/Glonass/L1/B3/B2/L5) Antenna			
TOLERANCE SUR PER ANG 1/16.5		DRAWN		REV	
REMOVE ALL BURRS BREAK EXTERNAL EDGES .005 TO .015 FILET R .005 TO R .030 SLOW THREADS PER MIL-S-8879 DAYS ON A COMMON & .005		CHECKED		DATE NO	
MACHINED SURFACES $\sqrt{R}$		ENGINEER		DRAWING NO	
DO NOT SCALE DRAWING		APPROVED S. HUYNH April 11-11		SCALE 1/1	
		CAB FILE NO		X XXXX-XX-XXX-X XXX	
		D		SHEET 1 OF 1	



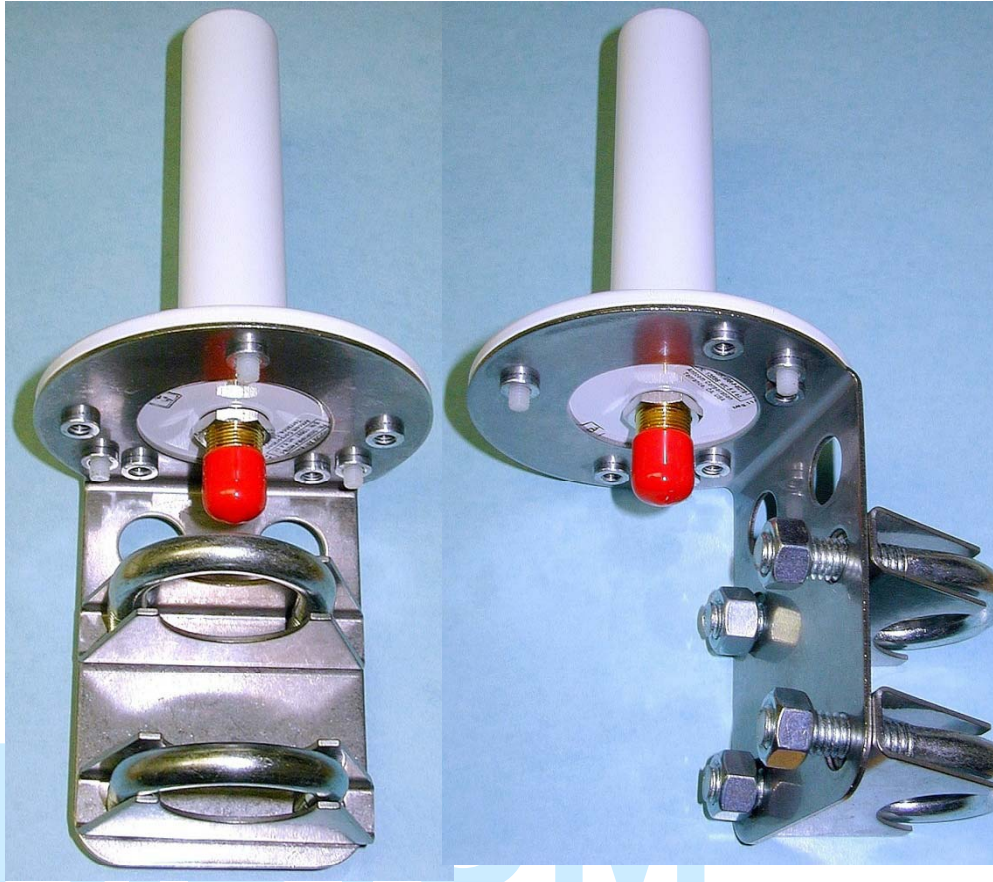
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IRIDIUM Antenna, P/N: S53IR16RR-P-M2TB-1:
3.5" Diameter x 4.5" Tall, Fixed Site, Pipe Mount Configurations



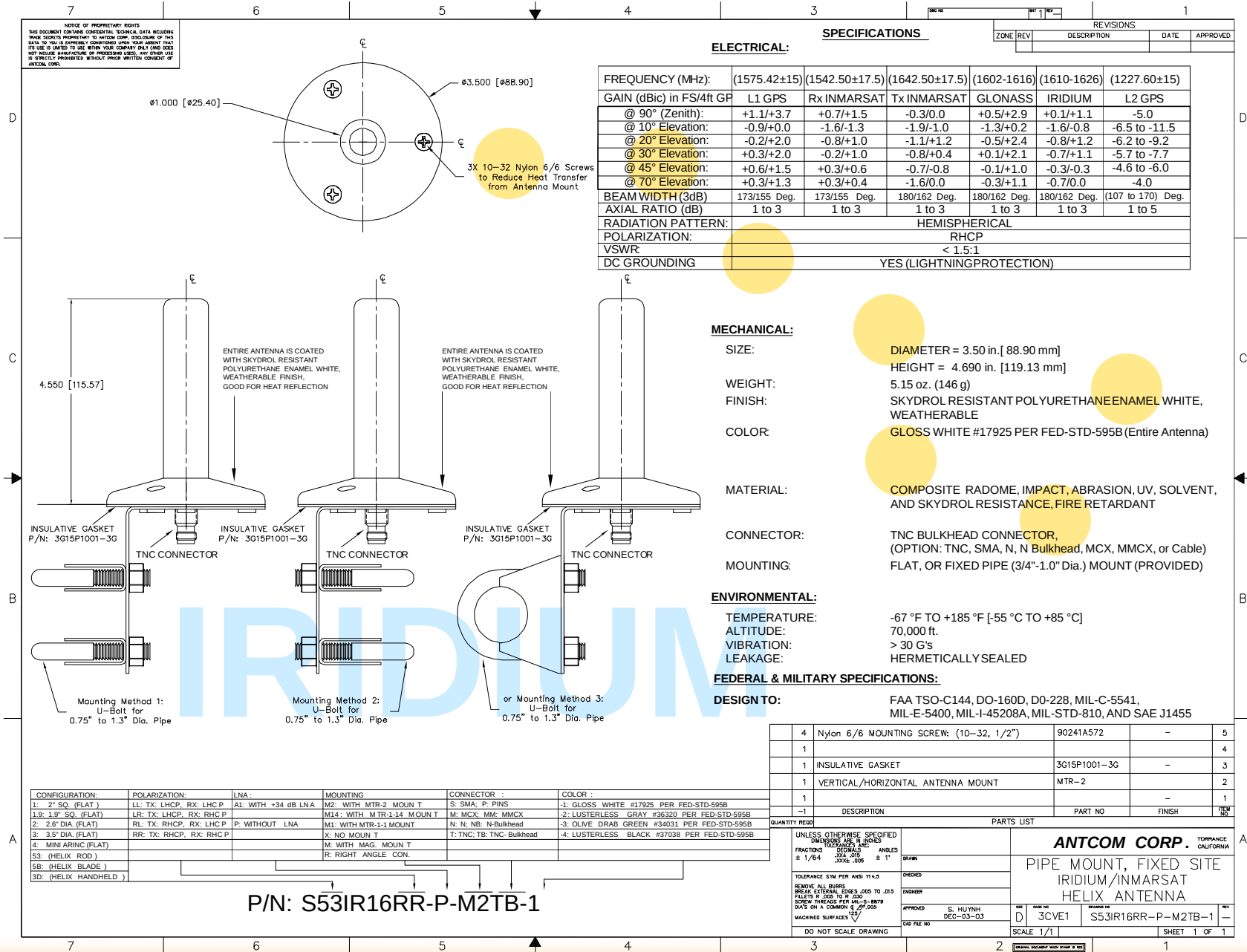
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IRIDIUM Antenna, P/N: S53IR16RR-P-M2TB-1: 3.5" Diameter x 4.5" Tall, Fixed Site, Pipe Mount Configurations



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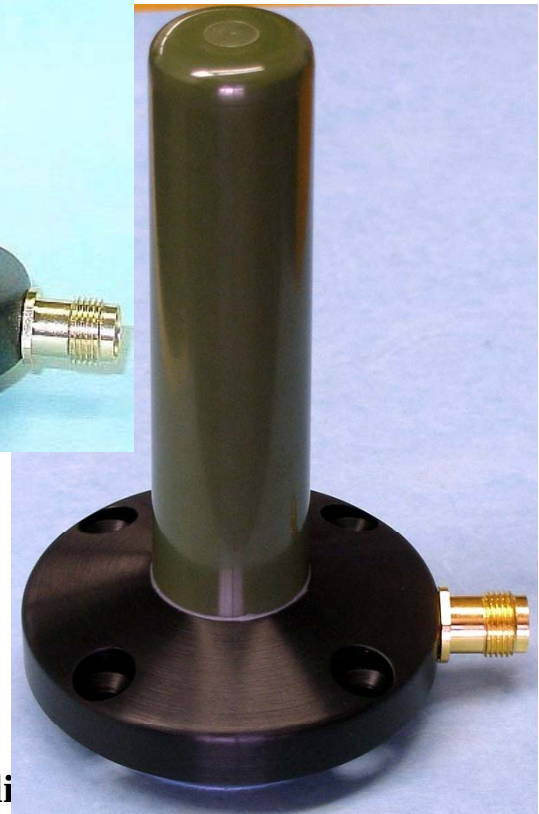




P/N: S53IR16RR-P-M14TB-1 (W
S53IR16RR-P-M14TB-4 (Black),
S53IR16RR-P-M14TB-3 (Green)
3.5" Diameter x 4.5" Tall



P/N: S52IR16RR-P-MT-1 (White),
S52IR16RR-P-MT-4 (Black),
S52IR16RR-P-MT-3 (Green)
2.6" Diameter x 4.5" Tall



Hermetically Sealed, Designed for Harsh Environment Appli

Connector is Available in SMA, MCX, MMCX, TNC, TNC-B, N, or N-Bulkhead (See Drawing)



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ITS USE IS LIMITED TO USE WITHIN YOUR COMPANY ONLY AND DOES
NOT INCLUDE REPRODUCTION OR MODIFICATION, AND YOUR USE
IS EXPRESSLY PROHIBITED WITHOUT PRIOR WRITTEN CONSENT OF
ANTRON CORP.

D

C

B

A

3X on
1.344 [34.12] Rad.

3X Ø.20 [Ø5.11]
✓ Ø.385 [Ø9.78] X 100°

4.550 [115.57]

0.57" [14.53] (TNC), 0.72" [18.29] (N, N-Bulkhead)
0.46" [11.68] (SMA), 0.83" [21.00] (TNC-Bulkhead)

1" - 14 Thread
x 0.5" Deep

NAME PLATE

4x 10-32 Thread x 0.5" Deep
Equally Spaced on
1.344 [34.12] Radius
for Optional Mounting.

TNC BULKHEAD CONNECTOR
(OPTION: TNC, SMA, N, N Bulkhead
MCX, MMCX, or Cable)

CONFIGURATION: 1: 2" SQ. (FLAT) 2: 2.6" DIA. (FLAT) 3: 3.5" DIA. (FLAT) 4: MINI ARINC (FLAT) 53: (HELIX ROD) 58: (HELIX BLADE) 30: (HELIX HANDHELD)

POLARIZATION: LL: TX: LHCP, RX: LHCP LR: TX: LHCP, RX: RHCP RL: TX: RHCP, RX: LHCP RR: TX: RHCP, RX: RHCP

LNA: A1: WITH +34 dB LNA P: WITHOUT LNA

CABLE'S LENGTH: M14: 3-14" Thread Mount X: NO CABLE M: WITH MAG. MOUNT N: N: NB: N-Bulkhead R: RIGHT ANGLE CON.

CONNECTOR: S: SMA; P: PINS M: MCX; MM: MMCX N: N: NB: N-Bulkhead T: TNC; TB: TNC-Bulkhead

COLOR: 1: GLOSS WHITE #17925 PER FED-STD-595B 2: LUSTERLESS GRAY #36320 PER FED-STD-595B 3: OLIVE DRAB GREEN #34031 PER FED-STD-595B 4: LUSTERLESS BLACK #37038 PER FED-STD-595B

NOTES: UNLESS OTHERWISE SPECIFIED:
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
2. ALL SCREWS ARE SUPPLIED BY ANTRON CORPORATION

P/N: S53IR16RR-P-M14TB-1

SPECIFICATIONS

ELECTRICAL:

FREQUENCY (MHz):	(1575.42±15)	(1542.50±17.5)	(1642.50±17.5)	(1602-1616)	(1610-1626)	(1227.60±15)
GAIN (dBic) in FS/4ft GP	L1 GPS	Rx INMARSAT	Tx INMARSAT	GLONASS	IRIDIUM	L2 GPS
@ 90° (Zenith):	+1.1/+3.7	+0.7/+1.5	-0.3/0.0	+0.5/+2.9	+0.1/+1.1	-5.0
@ 10° Elevation:	-0.9/+0.0	-1.6/-1.3	-1.9/-1.0	-1.3/+0.2	-1.6/-0.8	-6.5 to -11.5
@ 20° Elevation:	-0.2/+2.0	-0.8/+1.0	-1.1/+1.2	-0.5/+2.4	-0.8/+1.2	-6.2 to -9.2
@ 30° Elevation:	+0.3/+2.0	-0.2/+1.0	-0.8/+0.4	+0.1/+2.1	-0.7/+1.1	-5.7 to -7.7
@ 45° Elevation:	+0.6/+1.5	+0.3/+0.6	-0.7/-0.8	-0.1/+1.0	-0.3/-0.3	-4.6 to -6.0
@ 70° Elevation:	+0.3/+1.3	+0.3/+0.4	-1.6/0.0	-0.3/+1.1	-0.7/0.0	-4.0
BEAM WIDTH (3dB)	173/155 Deg.	173/155 Deg.	180/162 Deg.	180/162 Deg.	180/162 Deg.	(107 to 170) Deg.
AXIAL RATIO (dB)	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 5
RADIATION PATTERN:	HEMISPHERICAL					
POLARIZATION:	RHCP					
VSWR	< 1.5:1					
DC GROUNDING	YES (LIGHTNING PROTECTION)					

MECHANICAL:

SIZE: DIAMETER = 3.50 in. [88.90 mm]
HEIGHT = 4.690 in. [119.13 mm]

WEIGHT: 11 oz. (314 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIIDITE PER MIL-C-5441

COLOR: GLOSS WHITE #17925 PER FED-STD-595B
LUSTERLESS GRAY #36320 PER FED-STD-595B
OLIVE DRAB GREEN #34031 PER FED-STD-595B
LUSTERLESS BLACK #37038 PER FED-STD-595B

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT,
AND SKYDROL RESISTANCE, FIRE RETARDANT

CONNECTOR: TNC BULKHEAD CONNECTOR,
(OPTION: TNC, SMA, N, N Bulkhead, MCX, MMCX, or Cable)

MOUNTING: FLAT, OR FIXED PIPE (3/4"-1.0" Dia.) MOUNT (PROVIDED)

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]
ALTITUDE: 70,000 ft.
VIBRATION: > 30 G's
LEAKAGE: HERMETICALLY SEALED

FEDERAL & MILITARY SPECIFICATIONS:

DESIGN TO: FAA TSO-C144, DO-160D, D0-228, MIL-C-5541,
MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

QUANTITY REQD	DESCRIPTION	PART NO	FINISH	ITEM NO.
4	MOUNTING SCREW: (10-32, 1")	MS24693C276	-	5
1				4
1	ADHESIVE GASKET	12345G-3M-3G	-	3
1	VERTICAL/HORIZONTAL ANTENNA MOUNT	MTR-2		2
1	OPTIONAL VERTICAL ANTENNA MOUNT	MTR-1	-	1
-1				

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
FRACTIONS DECIMALS ANGLES
± 1/64 .005 .005 ± 1°

TOLERANCE 5% PER ANSI V14.5

REMOVE ALL SURF. MARKS
BREAK INTERNAL DIMS TO .015
FALLS IN .005 TO .010
CROSS HATCHES TO .010
DATE ON A COMMON SENSE
MACHINED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA

1-14 PIPE MOUNT,
IRIDIUM/GPS/GLONASS/
INMARSAT HELIX ANTENNA

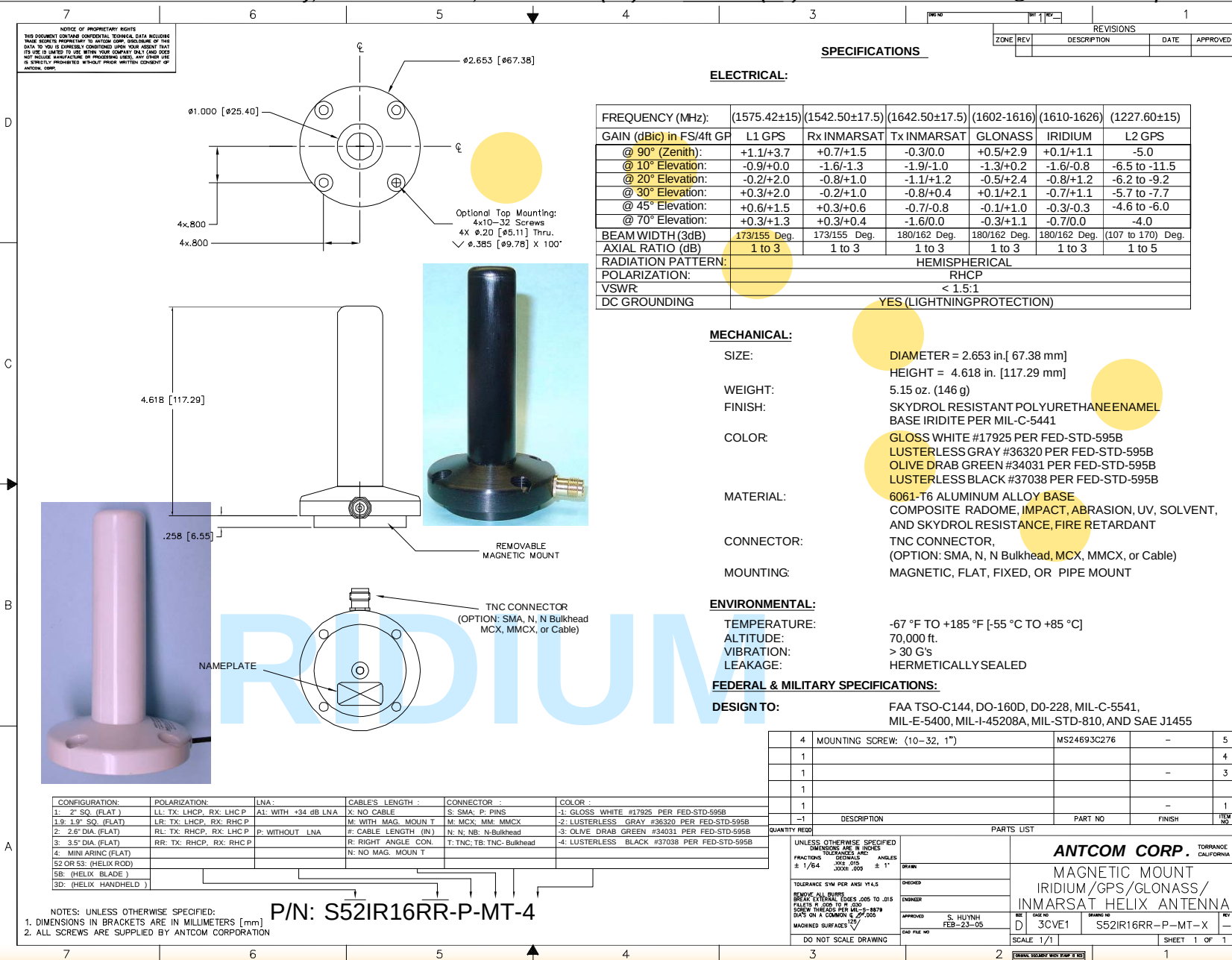
SCALE 1/1

SHEET 1 OF 1

IRIDIUM-GPS-Glonass-Inmarsat Helix Antenna, P/N: S52IR16RR-P-MT-X: 2.6" Diameter x 4.5" Tall, Magnetic Mount Antenna Configurations



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IRIDIUM Approved Antennas, P/N: S53IR16RR-X-XX-X:
3.5" Diameter x 4.5" Tall, Pipe/Flat Mount Configurations



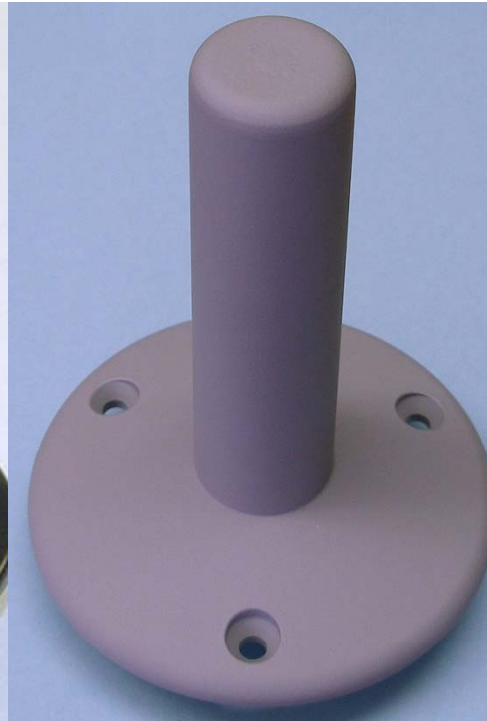
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S53IR16RR-P-XTB-1
(White)



S53IR16RR-P-XTB-4
(Black)



S53IR16RR-P-XTB-2
(Gray)



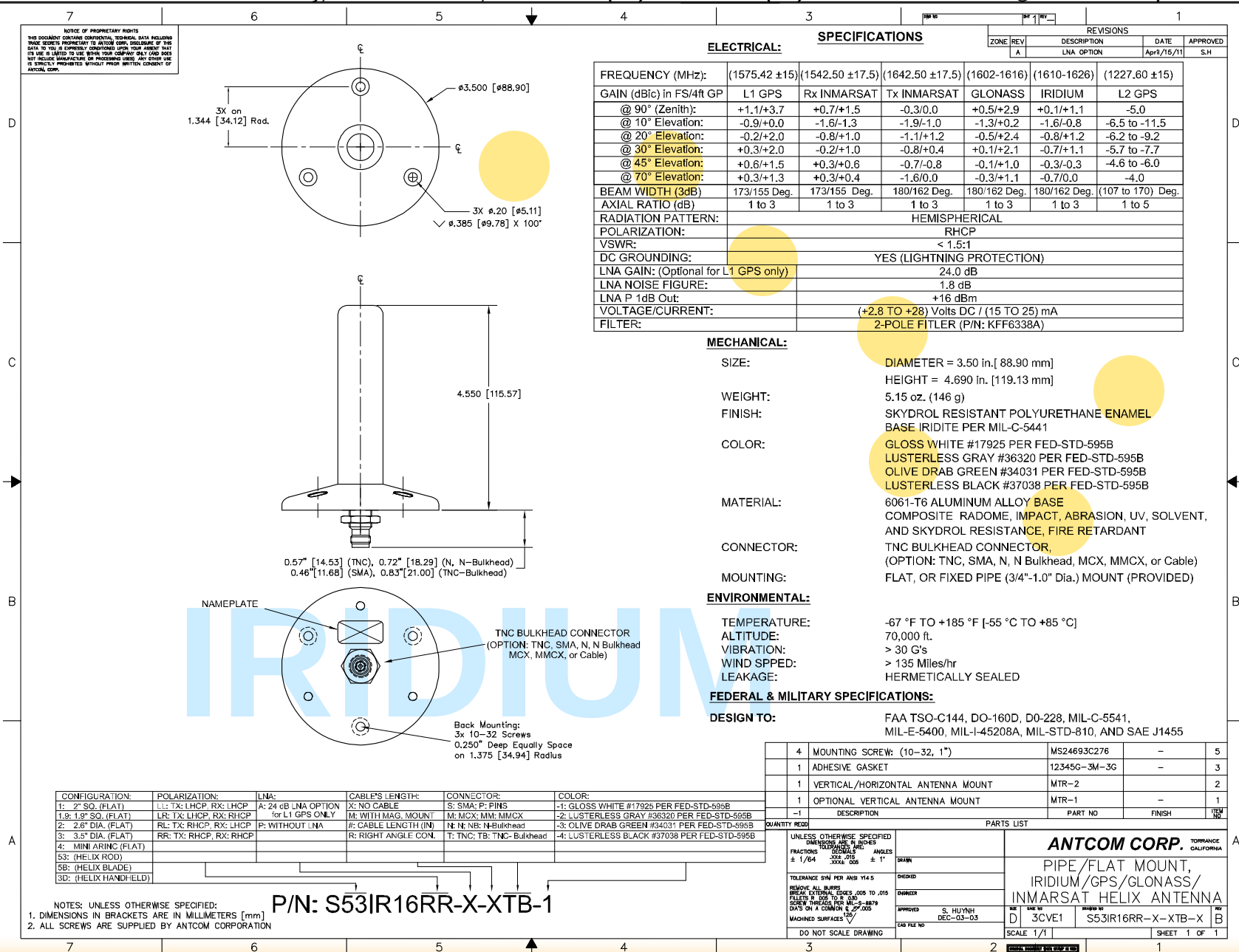
S53IR16RR-P-XTB-3
(Green)

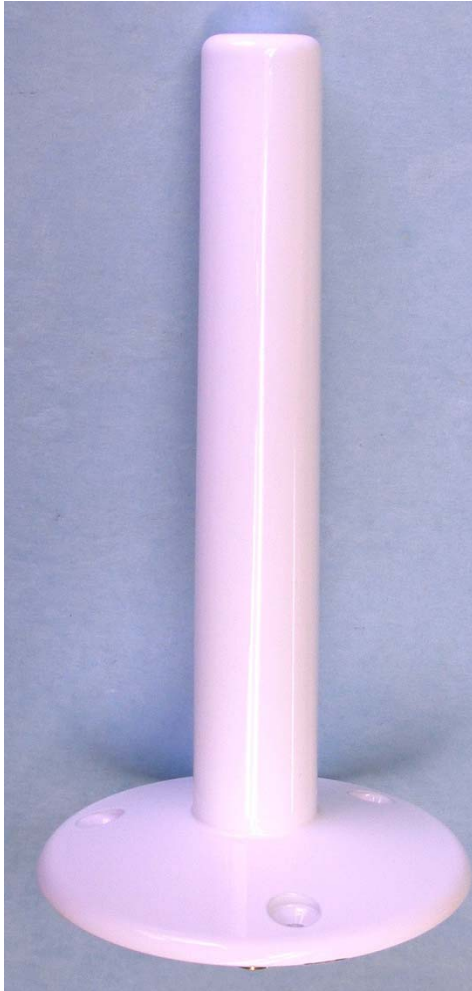
Hermetically Sealed, Designed for Harsh Environment Applications.

Connector is Available in SMA, MCX, MMCX, TNC, TNC-B, N, or N-Bulkhead (See Drawing)



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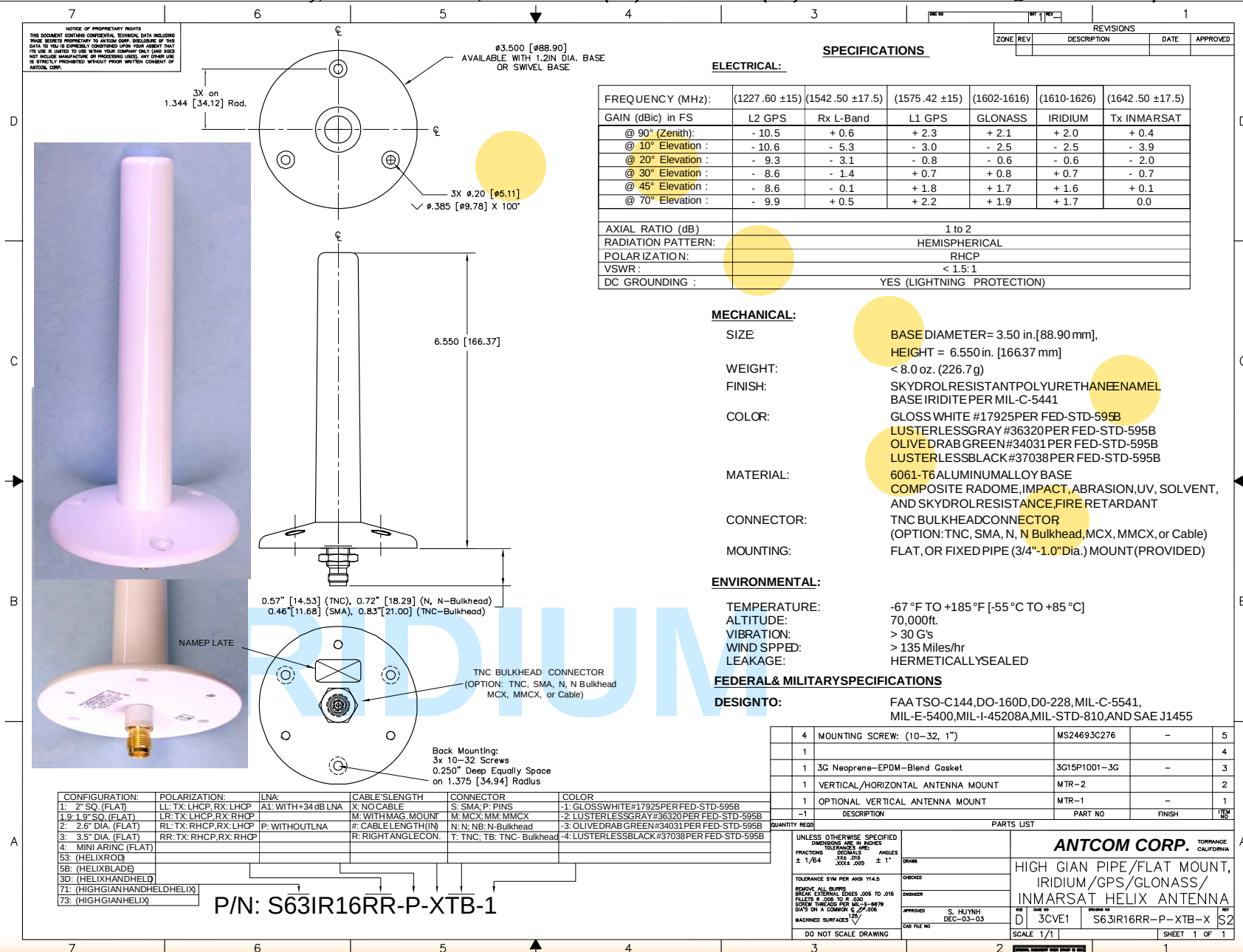
Hermetically Sealed, Designed for Harsh Environment Applications.

Connector is Available in SMA, MCX, MMCX, TNC, TNC-B, N, or N-Bulkhead (See Drawing)

High Gain Iridium/Inmarsat/GPS Helix Antenna, P/N: S63IR16RR-P-XT-1,
High Gain Thuraya Helix Antenna, P/N: S63IR16LL-P-XT-1,
3.5" Diameter x 6.6" Tall, Pipe/Flat Mount Configuration



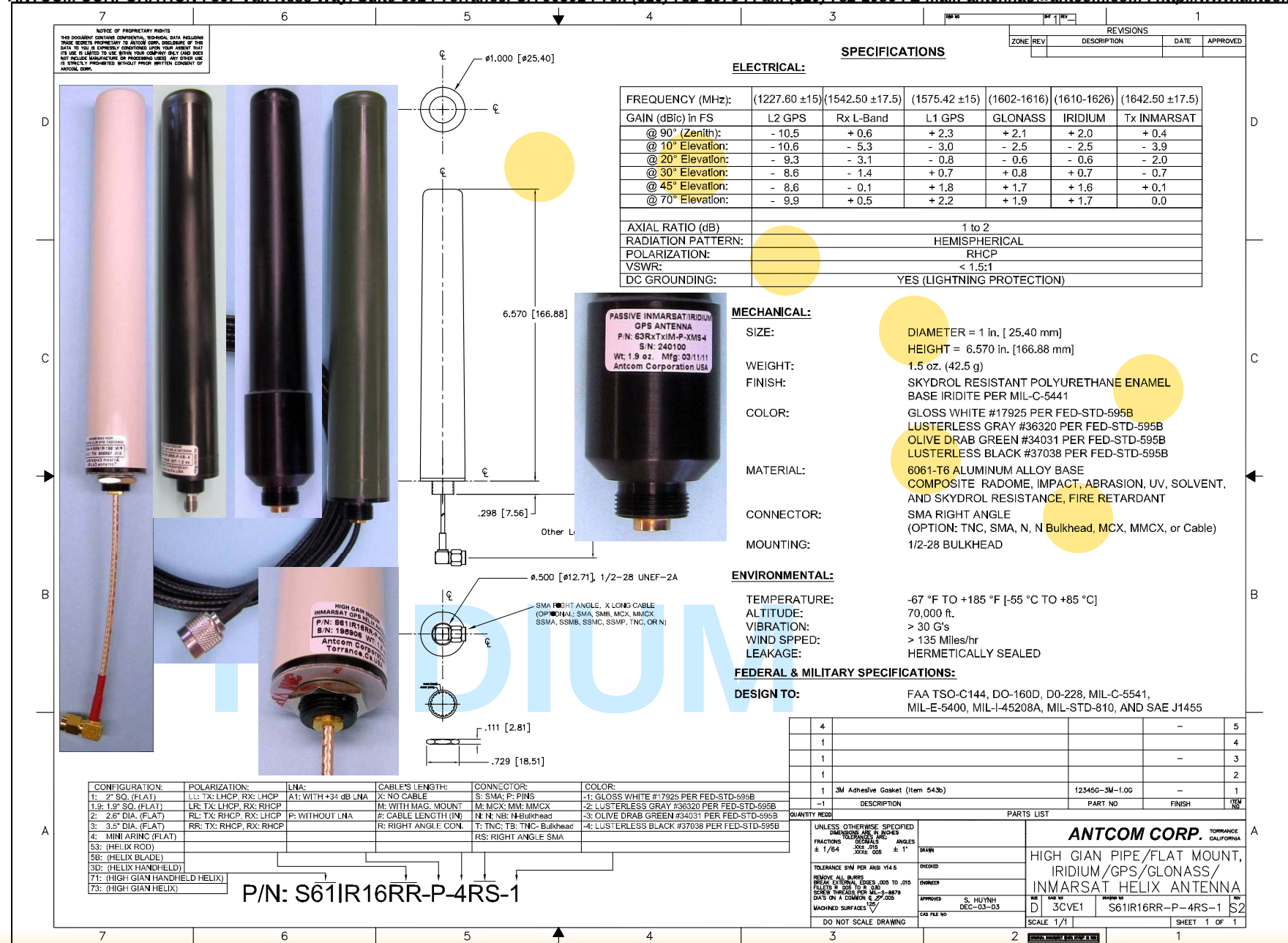
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High Gain Iridium/Inmarsat/GPS Helix Antenna, P/N: S61IR16RR-P-4RS-1,
High Gain Thuraya Helix Antenna, P/N: S61IR16LL-P-4RS-1
1" Diameter x 6.6" Tall, BulkHead/Pipe Mount Configuration



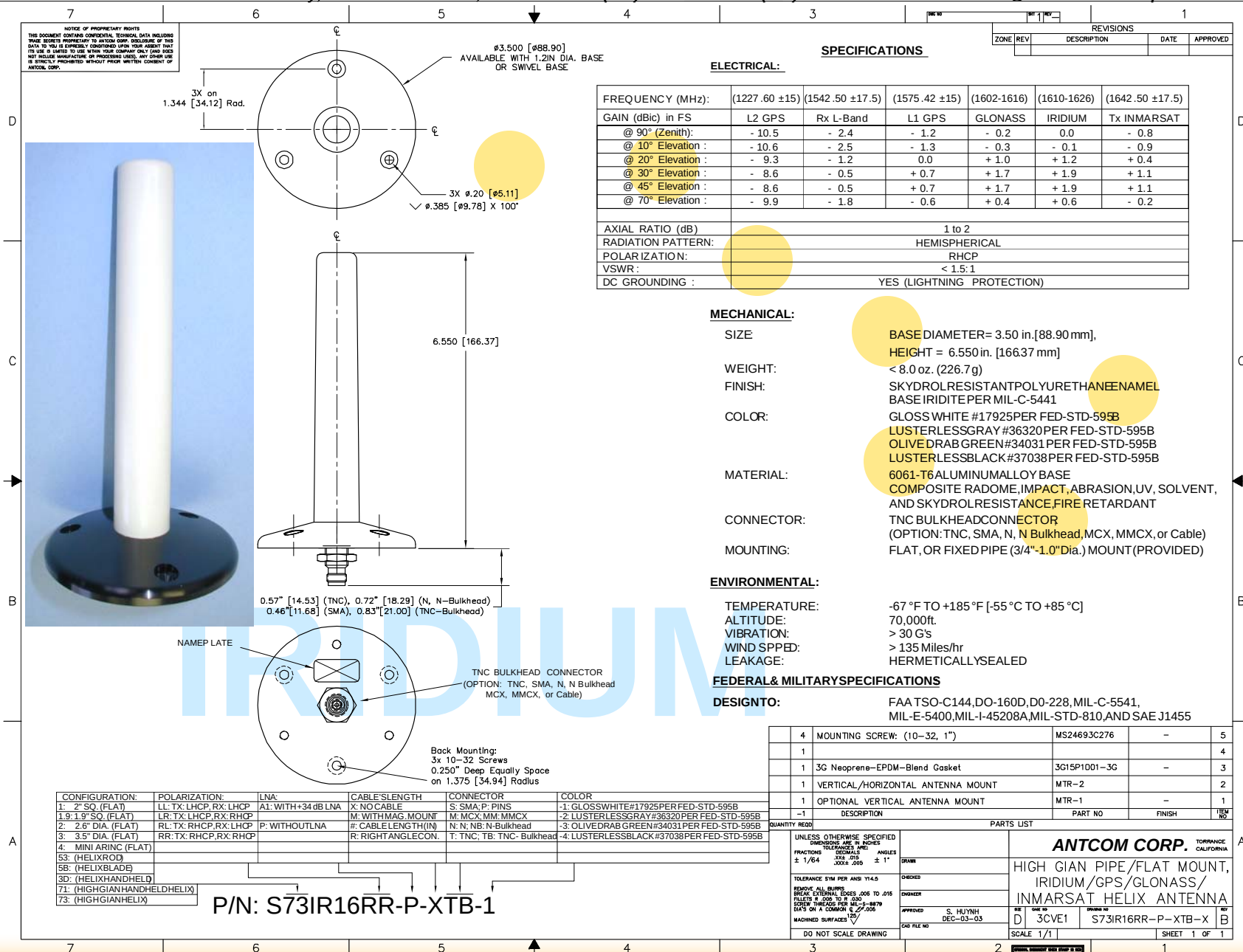
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High Gain Iridium/Inmarsat/GPS Helix Antenna, P/N: S73IR16RR-P-XX-X Rev B: 3.5" Diameter x 6.6" Tall, Pipe/Flat Mount Configuration



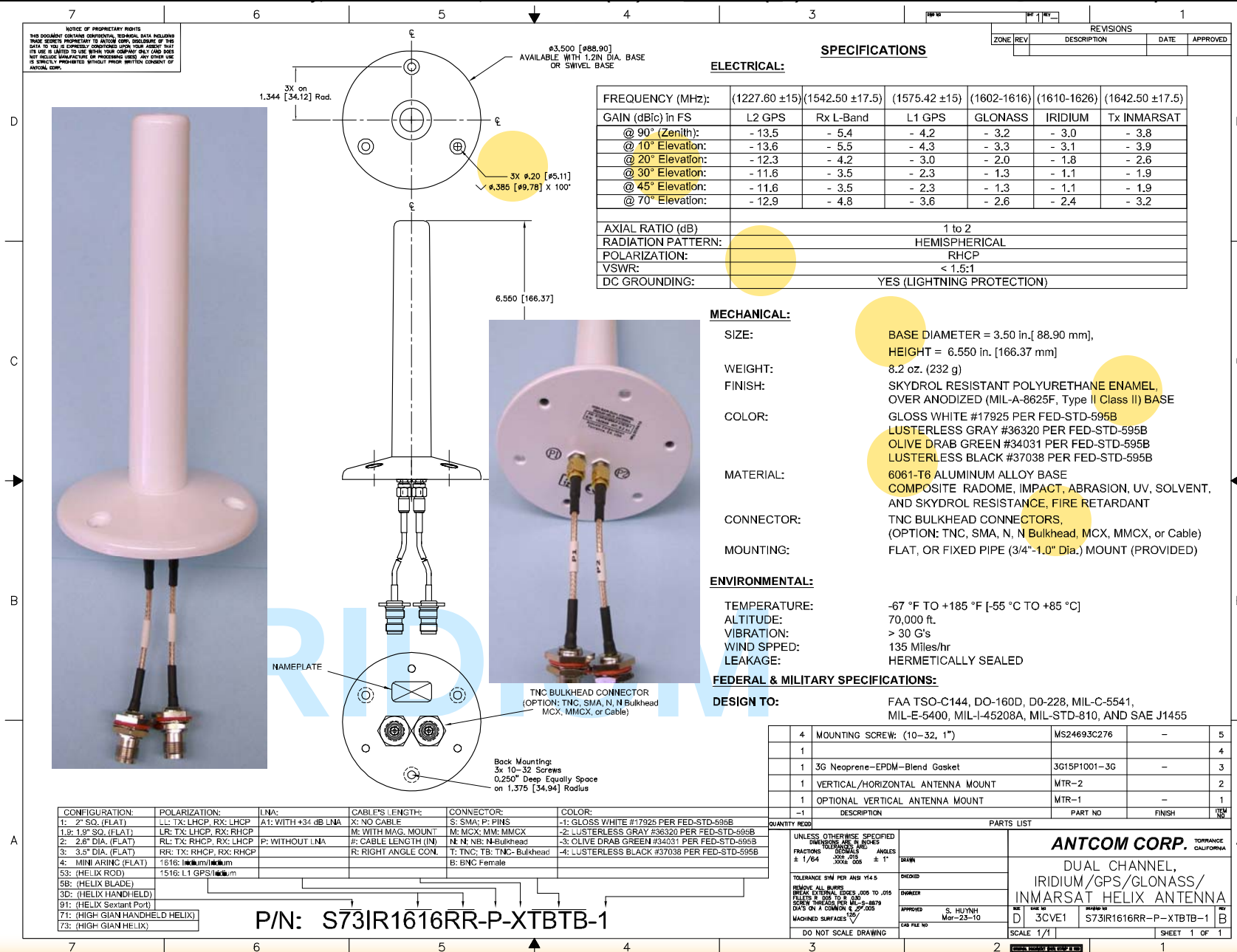
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High Gain Iridium/Inmarsat/GPS Helix Antenna, P/N: S73IR1616RR-P-XTBTB-1 Rev B: 3.5" Diameter x 6.6" Tall, Pipe/Flat Mount Configuration



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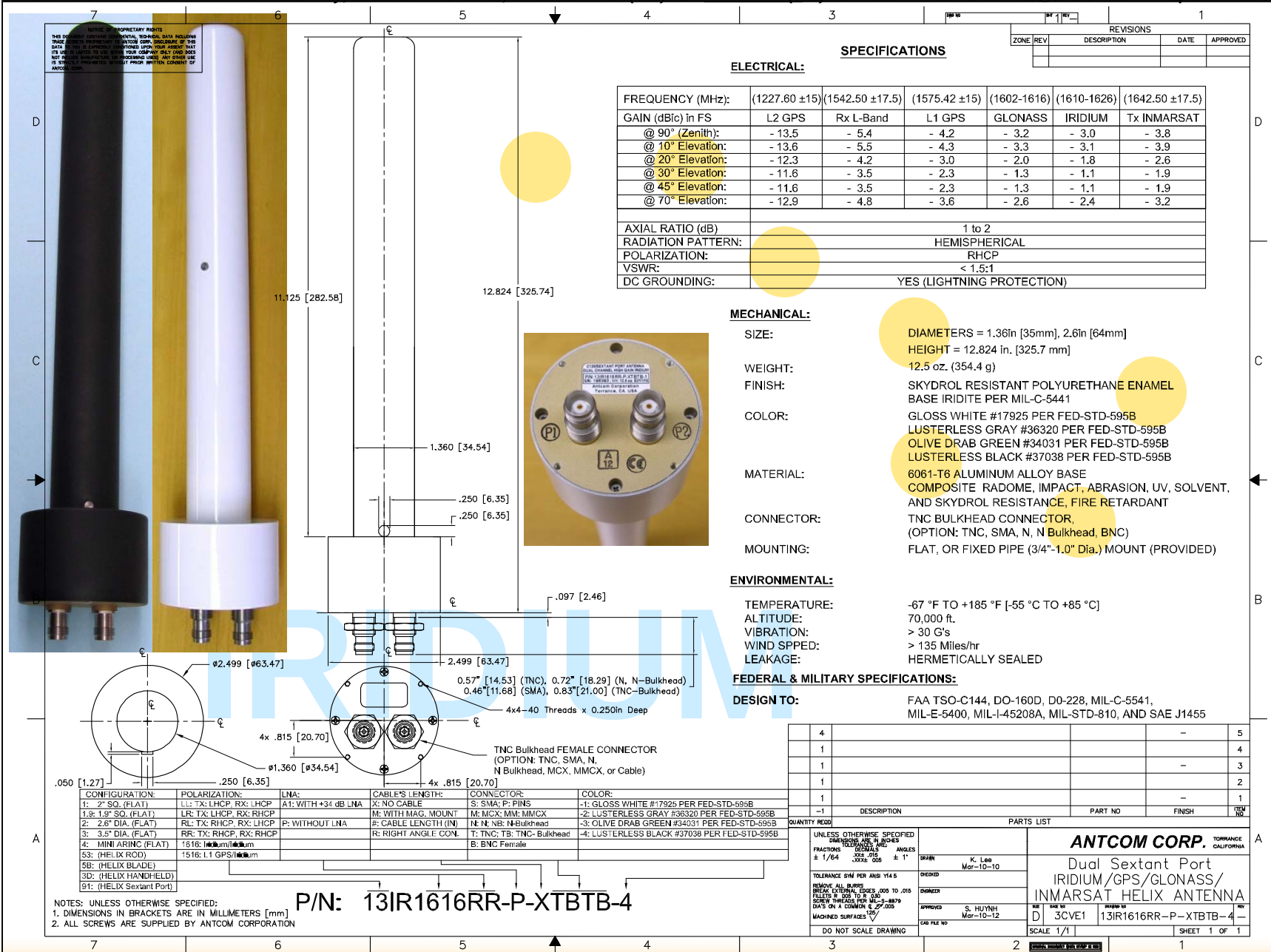


Dual IRIDIUM Antenna, P/N: 13IR1616RR-P-XTBTB-1:

1.36" Diameter x 12.8" Tall, C130/Sextant Port with 2 Lock-Pin Configuration, with BNC, TNC, SMA or N Connector Options



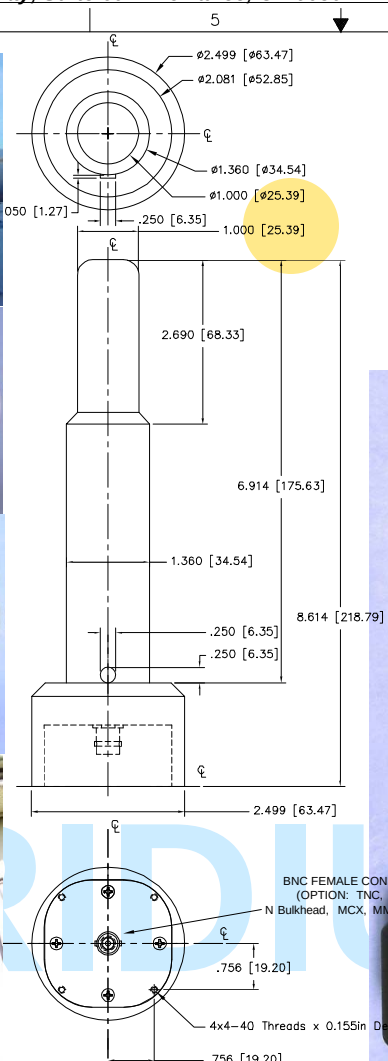
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1.36" Diameter x 8.6" Tall, C130/Sextant Port with Lock-Pin Configuration,
with BNC, TNC, SMA or N Connector Options



7	6	5	4	3	2	1
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ELECTRICAL:

FREQUENCY (MHz):	(1575.42 ±15)	(1542.50 ±17.5)	(1642.50 ±17.5)	(1602-1616)	(1610-1626)	(1227.60 ±15)
GAIN (dBic) in FS/4ft GP	L1 GPS	Rx INMARSAT	Tx INMARSAT	GLONASS	IRIDIUM	L2 GPS
@ 90° (Zenith):	+1.1/+3.7	+0.7/+1.5	-0.3/0.0	+0.5/+2.9	+0.1/+1.1	-5.0
@ 10° Elevation :	-0.9/+0.0	-1.6/-1.3	-1.9/-1.0	-1.3/-0.2	-1.6/-0.8	-6.5 to -11.5
@ 20° Elevation :	-0.2/+2.0	-0.8/+1.0	-1.1/+1.2	-0.5/+2.4	-0.8/+1.2	-6.2 to -9.2
@ 30° Elevation :	+0.3/+2.0	-0.2/+1.0	-0.8/+0.4	+0.1/+2.1	-0.7/+1.1	-5.7 to -7.7
@ 45° Elevation :	+0.6/+1.5	+0.3/+0.6	-0.7/-0.8	-0.1/+1.0	-0.3/-0.3	-4.6 to -6.0
@ 70° Elevation :	+0.3/+1.3	+0.3/+0.4	-1.6/-0.0	-0.3/+1.1	-0.7/0.0	-4.0
BEAM WIDTH (3dB)	173/155 Deg.	173/155 Deg.	180/162 Deg.	180/162 Deg.	180/162 Deg.	(107 to 170) Deg.
AXIAL RATIO (dB)	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 5
RADIATION PATTERN:	HEMISPHERICAL					
POLARIZATION:	RHCP					
VSWR:	< 1.5:1					
DC GROUNDING :	YES (LIGHTNING PROTECTION)					

MECHANICAL:

SIZE:	DIAMETERS= 1in [25mm], 1.36in[35mm], 2.6in [64mm] HEIGHT = 8.614 in. [218.79 mm] 7.1 oz. (201g)
WEIGHT:	SKYDROLRESISTANTPOLYURETHANEENAMEL BASE IRIDITEPER MIL-C-5441
FINISH:	GLOSS WHITE #17925PER FED-STD-595B LUSTERLESSGRAY #36320PER FED-STD-595B OLIVE DRAB GREEN #34031PER FED-STD-595B LUSTERLESSBLACK #37038PER FED-STD-595B
COLOR:	6061-T6ALUMINUMALLOY BASE COMPOSITE RADOME,IMPACT, ABRASION,UV, SOLVENT, AND SKYDROLRESISTANCE,FIRE RETARDANT
MATERIAL:	BNC CONNECTOR, (OPTION: TNC, SMA, N, N Bulkhead, MCX, MMCX)
CONNECTOR:	FLAT, OR FIXED PIPE (3/4"-1.0" Dia.) MOUNT (PROVIDED)
MOUNTING:	

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]
 ALTITUDE: 70,000ft.
 VIBRATION: > 30 G's
 WIND SPEED: > 135 Miles/hr
 LEAKAGE: HERMETICALLY SEALED

FEDERAL & MILITARY SPECIFICATIONS

DESIGN TO: FAA TSO-C144, DO-160D, DO-228, MIL-C-5541,
MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

	4			—	5
	1				4
	1			—	3
	1				2
	1			—	1
	—1	DESCRIPTION	PART NO	FINISH	THE

[illegible]

CONFIGURATION:	POLARIZATION:	LNA:	CABLE LENGTH	CONNECTOR	COLOR
1: 2" SQ. (FLAT)	LL: TX: LHCP: RH: LHCP	A1: WITH +34 dB LNA	X: NO CABLE	S: SMA; P: PINs	1: GLO
1.9: 1.9" SQ. (FLAT)	LR: TX: RHCP: RHCP	A2: WITH +34 dB LNA	W: WITH MAG. MOUNT	M: MMC; MM: MMCX	2: LUST
2: 2" SUR DIA. (FLAT)	RL: TX: RHCP: RHCP	P: WITHOUT LNA	X: CABLE LENGTH 10m	N: NMC; NB: Bulkhead	3: OLIVE
3: 3.5" DIA. (FLAT)	RR: TX: RHCP: RH: RHCP		R: RIGHT ANGLE CON.	T: TNC; TB: TNC- Bulkhead	4: LUST
4: MINI ARINC (FLAT)				B: BNC FEM; B: TNC	
53: (HELIX)ROD					
58: (HELIX)BLADE					
91: (HELIX)HAND HELD					
98: (HELIX) Sextant Port					

NOTES: UNLESS OTHERWISE SPECIFIED:
DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

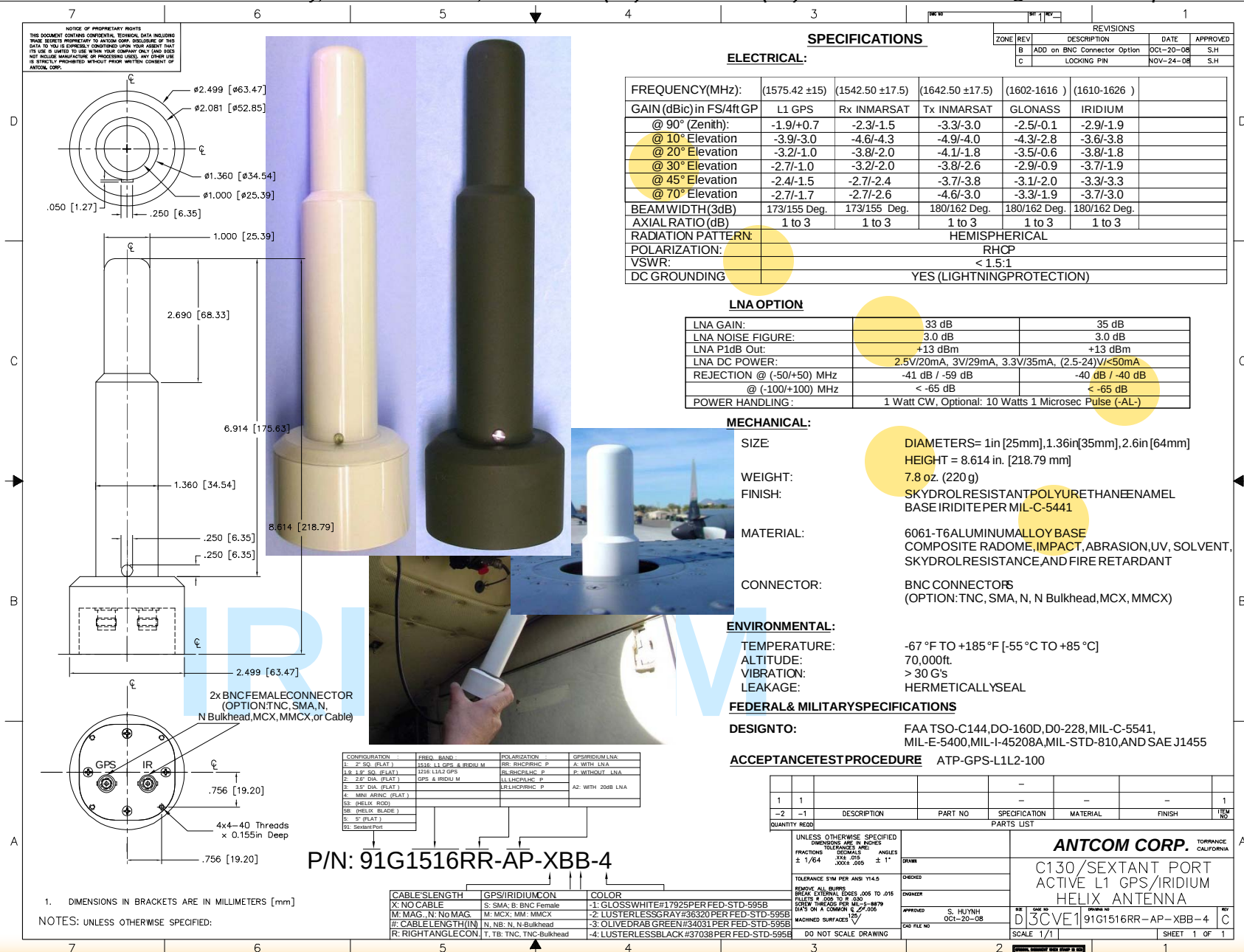
P/N: 91R16RR-P-XB-4

GPS/IRIDIUM Antenna, P/N: 91G1516RR-AP-XBB-X Rev C:

1.36" Diameter x 8.6" Tall, C130/Sextant Port with Lock-Pin Configuration, with BNC, TNC, SMA or N Connector Options

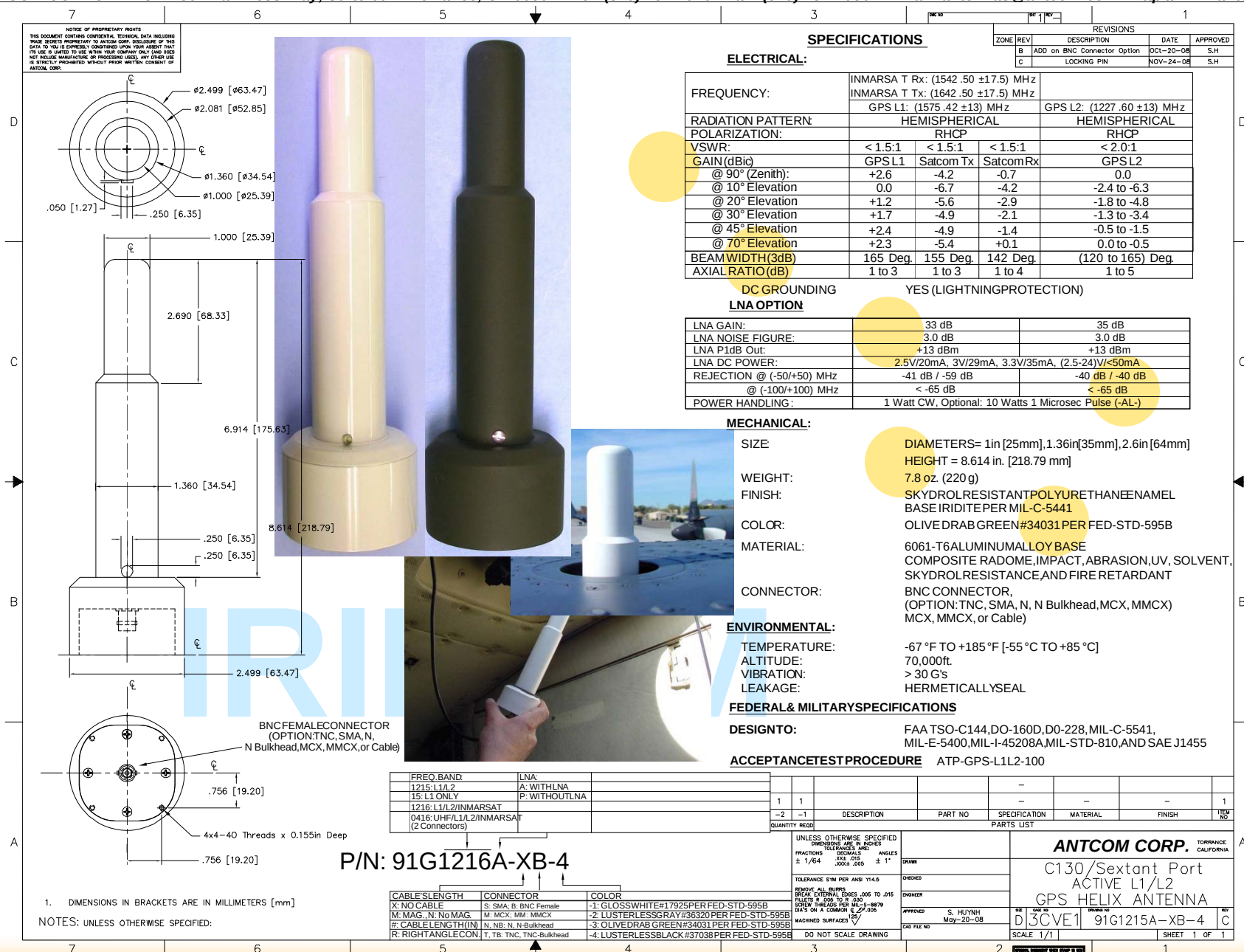


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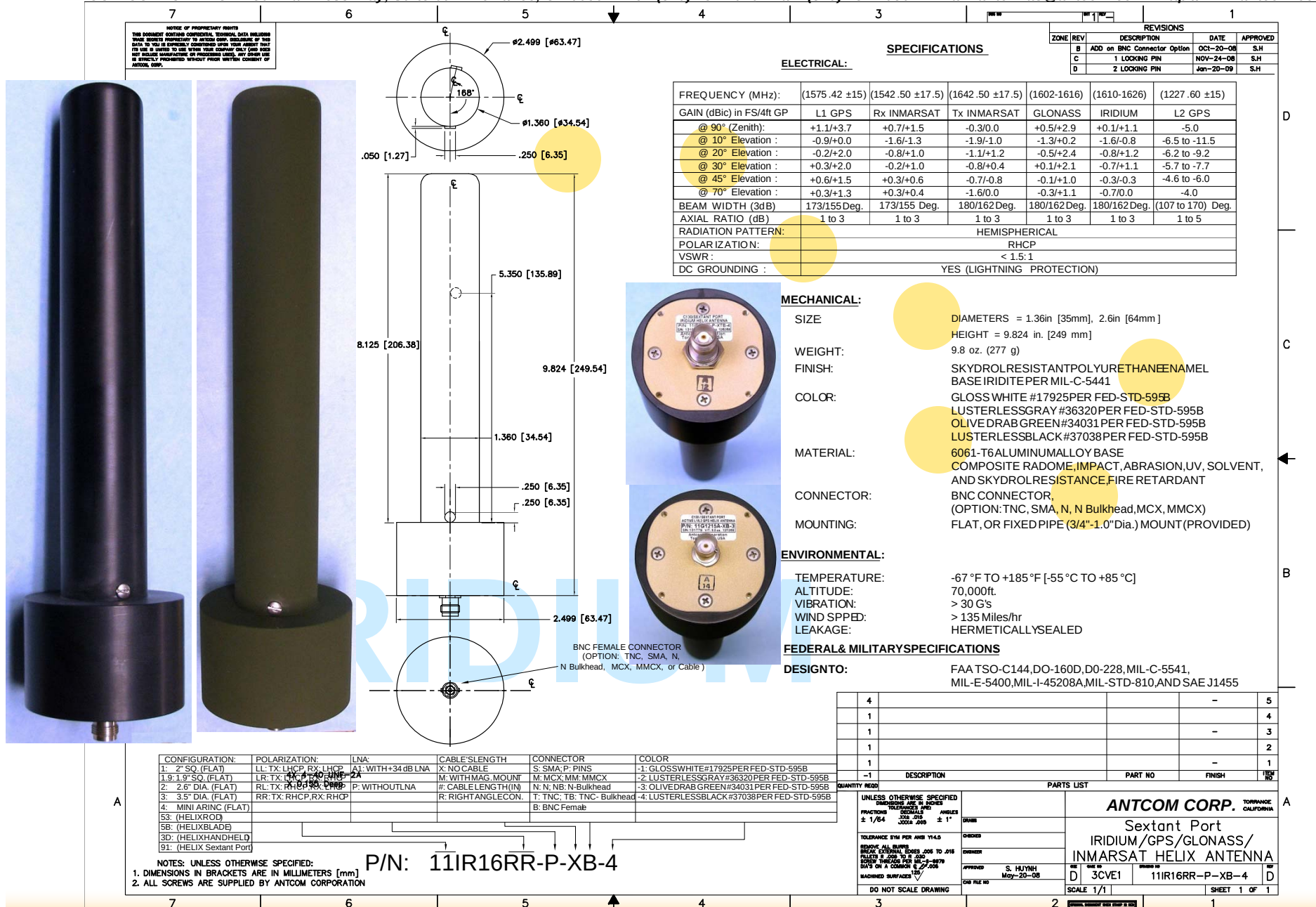




ISO9001

IRIDIUM Antenna, P/N: 11IR16RR-P-XB-X Rev D:**1.36" Diameter x 9.8" Tall, C130/Sextant Port with 2 Lock-Pin Configuration, with BNC, TNC, SMA or N Connector Options**

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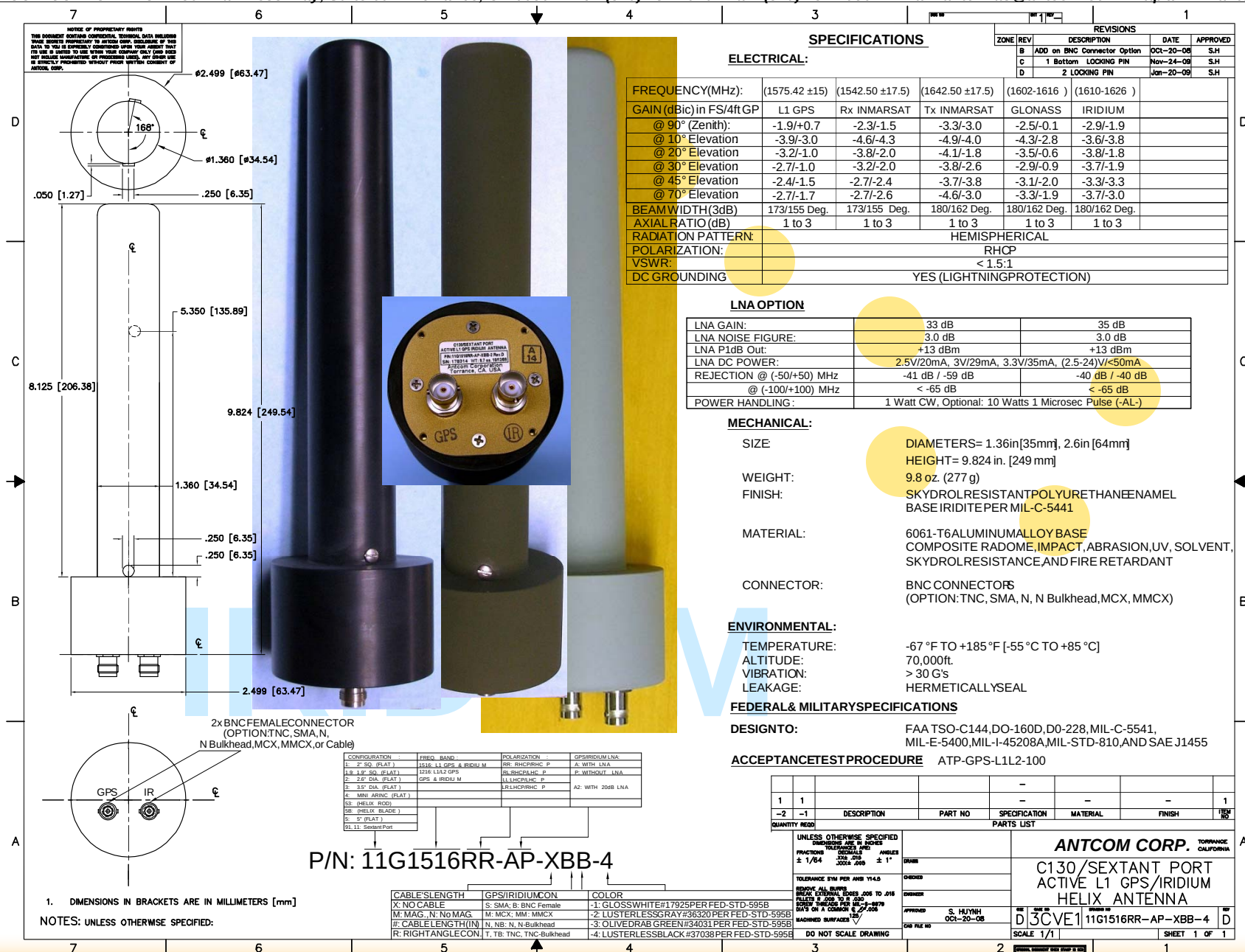




ISO9001

GPS/IRIDIUM Antenna, P/N: 11G1516RR-AP-XBB-X Rev D:**1.36" Diameter x 9.8" Tall, C130/Sextant Port with 2 Lock-Pin Configuration, with BNC, TNC, SMA or N Connector Options**

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7 6 5 4 3 2 1

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1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

1. GLOSS WHITE #17925 PER FED-STD-595B

2. LUSTERLESS GRAY #36320 PER FED-STD-595B

3. OLIVE DRAB GREEN #34031 PER FED-STD-595B

4. LUSTERLESS BLACK #37038 PER FED-STD-595B

5. SMA: B: BNC Female

6. MCX: MM: MMCX

7. N: N: N: Bulkhead

8. T: T: T: Bulkhead

9. UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 ± .005 ± .005 ± 1°

10. TOLERANCE .010 PER ANG. Y/L/S

11. SURF. ALL SURF. FINISHES TO BE AS SPECIFIED IN THE DRAWING UNLESS OTHERWISE SPECIFIED

12. MACHINED SURFACES

13. DO NOT SCALE DRAWING

14. ANTCOM CORP. TORRANCE, CALIFORNIA

15. C130/Sextant Port ACTIVE L1/L2 GPS HELIX ANTENNA

16. D13CVE1 11G1215A-XB-4

17. SCALE 1/1

18. SHEET 1 OF 1

19. SPECIFICATIONS

20. ELECTRICAL:

21. FREQUENCY:

22. INMARSAT Rx: (1542.50 ± 17.5) MHz

23. INMARSAT Tx: (1642.50 ± 17.5) MHz

24. GPS L1: (1575.42 ± 13) MHz

25. GPS L2: (1227.60 ± 13) MHz

26. RADIATION PATTERN:

27. HEMISPHERICAL

28. POLARIZATION:

29. RHCP

30. VSWR:

31. < 1.5:1

32. < 1.5:1

33. < 1.5:1

34. < 2.0:1

35. GAIN (dBi):

36. GPS L1 Satcom Tx

37. Satcom Rx

38. GPS L2

39. @ 90° (Zenith):

40. +2.6

41. -4.2

42. -0.7

43. 0.0

44. @ 10° Elevation

45. 0.0

46. -6.7

47. -4.2

48. -2.4 to -6.3

49. @ 20° Elevation

50. +1.2

51. -5.6

52. -2.9

53. -1.8 to -4.8

54. @ 30° Elevation

55. +1.7

56. -4.9

57. -2.1

58. -1.3 to -3.4

59. @ 45° Elevation

60. +2.4

61. -4.9

62. -1.4

63. -0.5 to -1.5

64. @ 70° Elevation

65. +2.3

66. -5.4

67. +0.1

68. 0.0 to -0.5

69. BEAM WIDTH (3dB)

70. 165 Deg.

71. 155 Deg.

72. 142 Deg.

73. (120 to 165) Deg.

74. AXIAL RATIO (dB)

75. 1 to 3

76. 1 to 3

77. 1 to 4

78. 1 to 5

79. DC GROUNDING

80. YES (LIGHTNING PROTECTION)

81. LNA GAIN:

82. 33 dB

83. 35 dB

84. LNA NOISE FIGURE:

85. 3.0 dB

86. 3.0 dB

87. LNA P1dB Out:

88. +13 dBm

89. +13 dBm

90. LNA DC POWER:

91. 2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24)V/<50mA

92. REJECTION @ (-50/+50) MHz

93. -41 dB / -59 dB

94. -40 dB / -40 dB

95. @ (-100/+100) MHz

96. < -65 dB

97. < -65 dB

98. POWER HANDLING:

99. 1 Watt CW, Optional: 10 Watts 1 Microsec Pulse (-AL-)

100. MECHANICAL:

101. SIZE

102. DIAMETERS= 1.36in [35mm], 2.6in [64mm]

103. HEIGHT= 9.824in. [249mm]

104. WEIGHT:

105. 9.8 oz. (277g)

106. FINISH:

107. SKYDROL RESISTANT POLYURETHANE ENAMEL

108. BASE IRIDIUM PER MIL-C-5441

109. COLOR:

110. OLIVE DRAB GREEN #34031 PER FED-STD-595B

111. MATERIAL:

112. 6061-T6 ALUMINUM ALLOY BASE

113. COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT

114. SKYDROL RESISTANCE AND FIRE RETARDANT

115. CONNECTOR:

116. BNC CONNECTOR,

117. (OPTION: TNC, SMA, N, N Bulkhead, MCX, MMCX)

118. ENVIRONMENTAL:

119. TEMPERATURE:

120. -67 °F to +185 °F [-55 °C to +85 °C]

121. ALTITUDE:

122. 70,000ft.

123. VIBRATION:

124. > 30 G's

125. LEAKAGE:

126. HERMETICALLY SEAL

127. FEDERAL & MILITARY SPECIFICATIONS

128. DESIGN TO:

129. FAA TSO-C144, DO-160D, DO-228, MIL-C-5541,

130. MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

131. ACCEPTANCE TEST PROCEDURE

132. ATP-GPS-L1L2-100

133. 1 1

134. -2 -1

135. DESCRIPTION

136. PART NO

137. SPECIFICATION

138. MATERIAL

139. FINISH

140. 1

141. QUANTITY REQD

142. PARTS LIST

143. UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 ± .005 ± .005 ± 1°

144. TOLERANCE .010 PER ANG. Y/L/S

145. SURF. ALL SURF. FINISHES TO BE AS SPECIFIED IN THE DRAWING UNLESS OTHERWISE SPECIFIED

146. MACHINED SURFACES

147. DO NOT SCALE DRAWING

148. ANTCOM CORP. TORRANCE, CALIFORNIA

149. C130/Sextant Port ACTIVE L1/L2 GPS HELIX ANTENNA

150. D13CVE1 11G1215A-XB-4

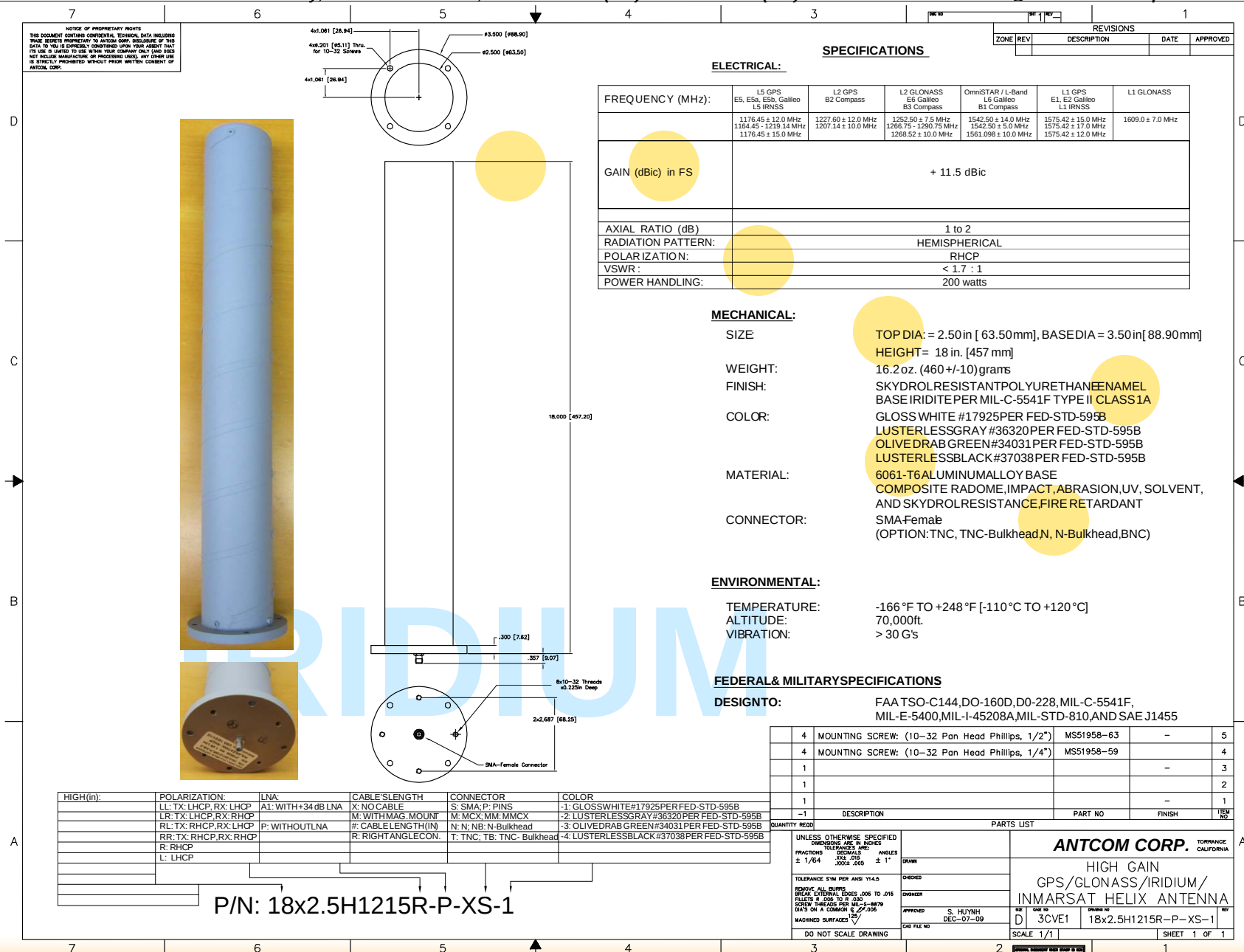
151. SCALE 1/1

152. SHEET 1 OF 1

Iridium/Inmarsat/L1/L2 GPS/Glonass/L-Band (1-2 GHz) Helix Antenna,
P/N: 18x2.5H1215R-P-XS-1
2.5" Diameter x 18" Tall, Front/Back Mount Configuration, for Space Applications
with SMA, TNC, N, or BNC Connector Options



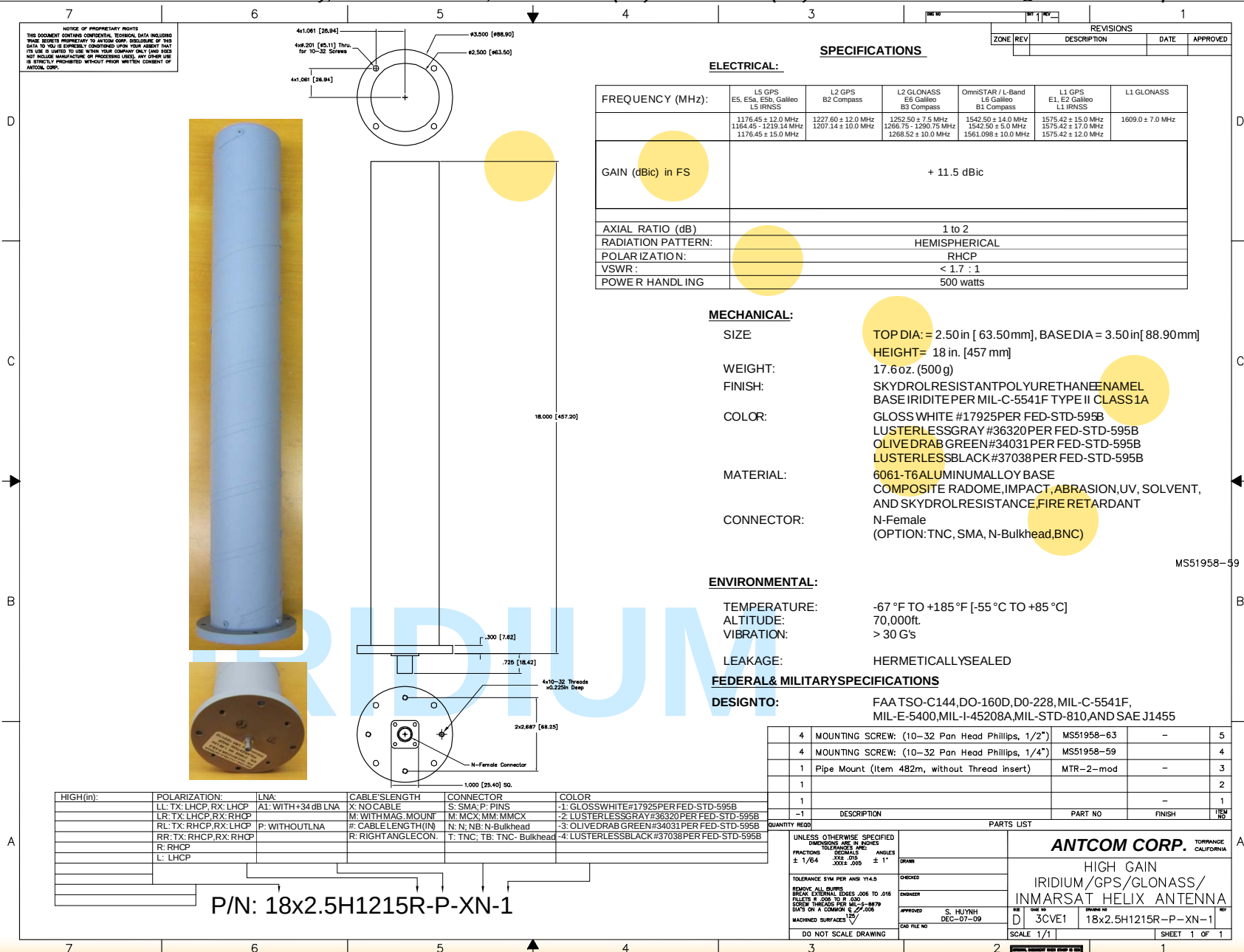
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Iridium/Inmarsat/L1/L2 GPS/Glonass/L-Band (1-2 GHz) Helix Antenna,
P/N: 18x2.5H1215R-P-XN-1
2.5" Diameter x 18" Tall, Front/Back Mount Configuration, 500 watts
with N, SMA, TNC, or BNC Connector Options



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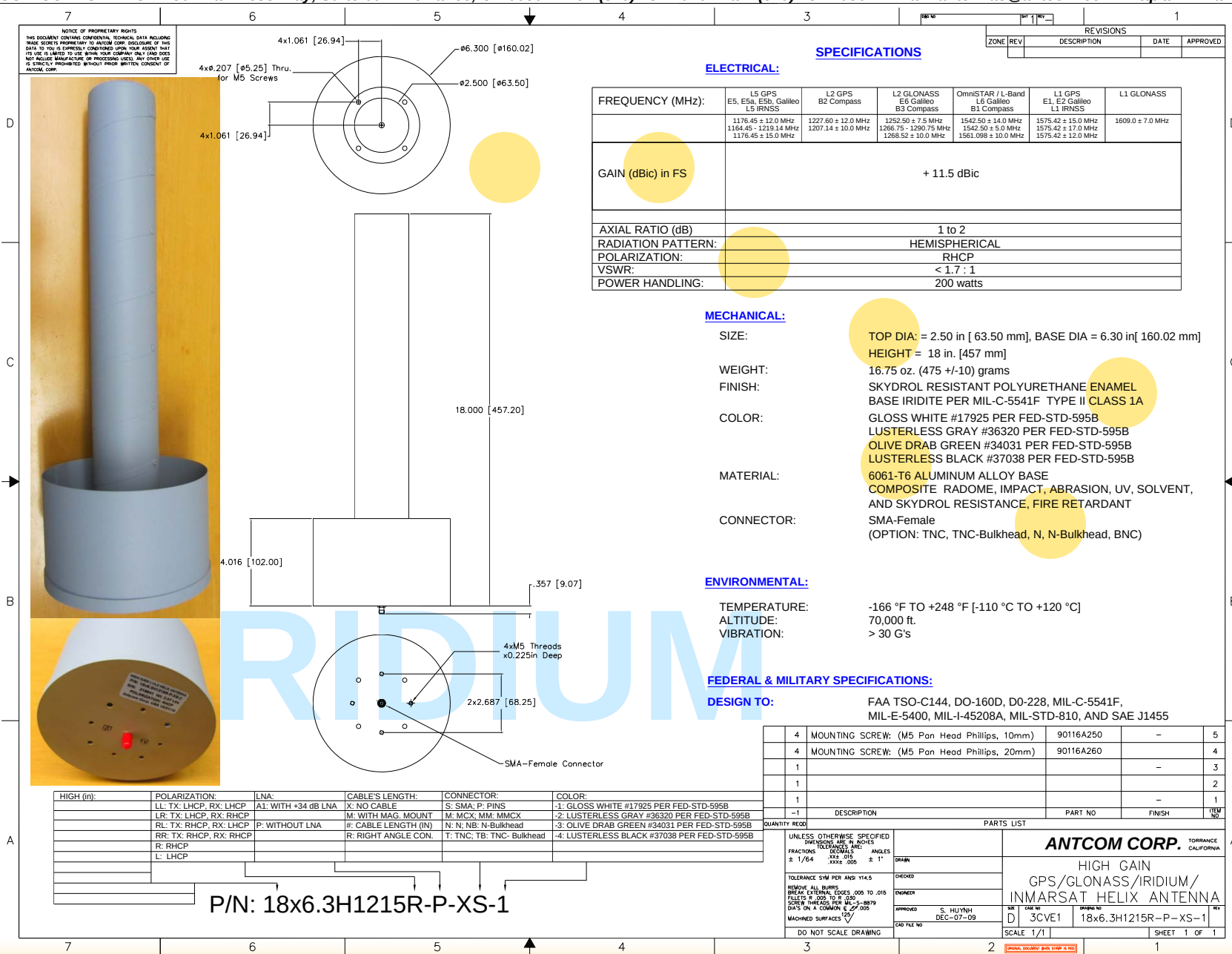
ISO9001

L1/L2 GPS/L-Band (1-2 GHz) Helix Antenna, P/N: 18x6.3H1215R-P-XS-1

2.5" Diameter x 18" Tall, Front/Back Mount Configuration, *for Space Applications*
with SMA, TNC, N, or BNC Connector Options



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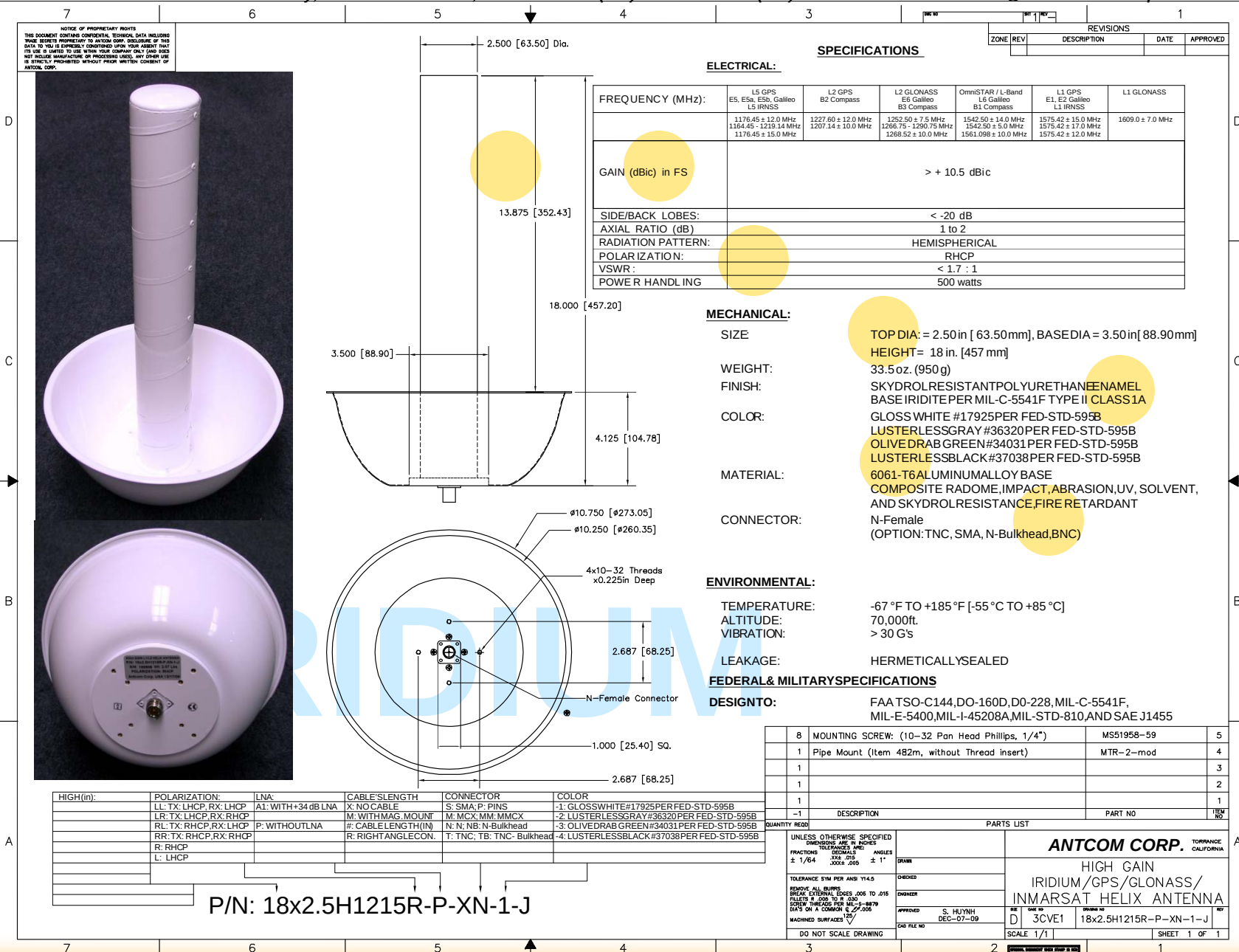


ISO9001

Iridium/Inmarsat/L1/L2 GPS/Glonass/L-Band (1-2 GHz) Helix Antenna,
P/N: 18x2.5H1215R-P-XN-1-J, 2.5" Diameter x 18" Tall, Front/Back Mount Configuration,
500 watts, Low side/Back Lobes for Jamming Applications
with N, SMA, TNC, or BNC Connector Options



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**IRIDIUM Approved Antennas, P/N: S2IR16RR-P-XMT-X:
2.6" Diameter, Magnetic Mount Configurations with Low Loss Cables**



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P/N: S2IR16RR-P-60MT-3

**Hermetically Sealed,
Designed for Harsh
Environment
Applications.
Other Connector is
Available
(See Drawing)**

P/N: S2IR16RR-P-196MT-5



P/N: S2IR16RR-P-60MT-4



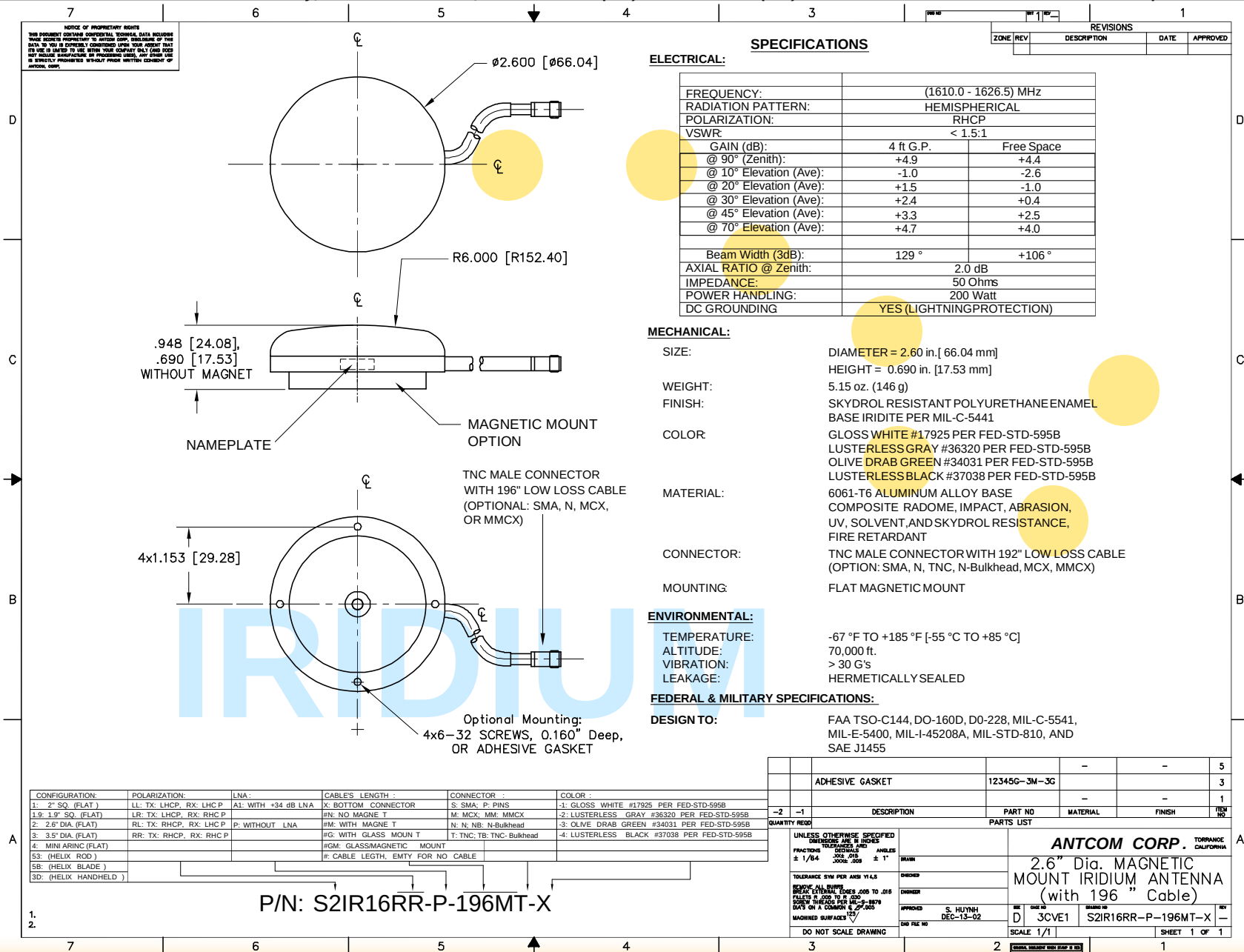
P/N: S2IR16RR-P-196MT-1



IRIDIUM Approved Antennas, P/N: S2IR16RR-P-196MT-X: 2.6" Diameter, Magnetic Mount Configurations with Low Loss Cable



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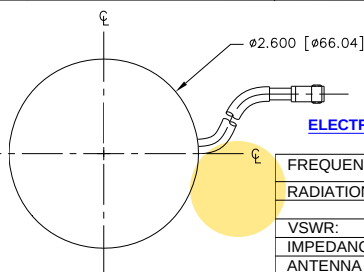


2.6" Diameter, Flat, Magnetic Mount, Side Cable Configuration

3.5in Dia., Mini-Arinc, & Arinc-743 Versions are also available

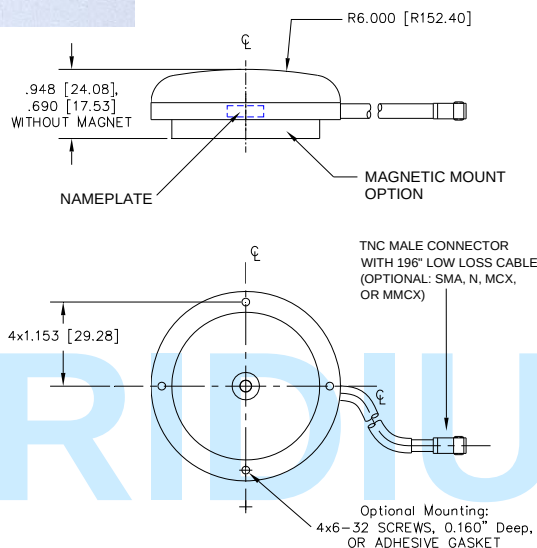
NOTICE OF PROPRIETARY RIGHTS

THIS DOCUMENT CONTAINS CONFIDENTIAL TECHNICAL DATA INCLUDING TRADE SECRETS PROPRIETARY TO ANTECOM CORP. DISCLOSURE OF THIS DATA TO YOU IS EXPRESSLY CONDITIONED UPON YOUR ASSENT THAT ITS USE IS LIMITED TO USE WITHIN YOUR COMPANY ONLY (AND DOES NOT INCLUDE MANUFACTURE OR PROCESSING USES). ANY OTHER USE IS STRICTLY PROHIBITED WITHOUT PRIOR WRITTEN CONSENT OF ANTECOM CORP.



ELECTRICAL:

FREQUENCY:	(1542.5 ± 17.5) MHz		(1575 ± 17) MHz		(1609 -1626) MHz		(1642.5 ± 17.5) MHz	
RADIATION PATTERN:	HEMISPHERICAL							
VSWR:	< 2.0:1		< 2.0:1		< 2.0:1		< 2.0:1	
IMPEDANCE:	50 ohms		50 ohms		50 ohms		50 ohms	
ANTENNA GAIN (dBic):	Free Space	4 ft G.P.	Free Space	4 ft G.P.	Free Space	4 ft G.P.	Free Space	4 ft G.P.
@ 90° (ZENITH):	+ 2.5	+ 1.6	+ 3.7	- 1.5	+ 3.0	- 0.5	+ 3.4	+ 0.5
@ 10° Elevation:	- 4.7	- 2.4	- 3.5	- 3.5	- 4.5	- 4.0	- 3.8	- 3.3
@ 20° Elevation:	- 3.8	+ 0.7	- 2.6	- 0.9	- 3.3	- 1.2	- 2.7	- 0.6
@ 30° Elevation:	- 2.1	+ 2.3	- 0.9	+ 0.3	- 1.5	- 0.3	- 1.0	- 0.1
@ 60 - 90° Elevation:	> +1.0	> +2.1	> +2.3	> 0	> +1.8	> - 1.3	> +2.2	> - 1.5
BEAM WIDTH (3dB):	90 Deg.	140 Deg.	85 Deg.	140 Deg.	85 Deg.	140 Deg.	87 Deg.	130 Deg.
AXIAL RATIO:	3 dB							
LIGHTNING PROTECTION:	DC GROUNDING							



MECHANICAL:

SIZE:	DIAMETER = 2.60 in. [66.04 mm] HEIGHT = 0.583 in. [14.81 mm]
WEIGHT:	5.15 oz. (146 g)
FINISH:	SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5441
MATERIAL:	6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT
CONNECTOR:	TNC MALE CONNECTOR WITH LOW LOSS CABLE (OPTION: SMA, N, BNC, SMB, MCX, MMCX, or Cable)

ENVIRONMENTAL:

TEMPERATURE:	-67 °F TO +185 °F [-55 °C TO +85 °C]
ALTITUDE:	70,000 ft.
VIBRATION:	> 30 G's
LEAKAGE:	HERMETICALLY SEALED

FEDERAL & MILITARY SPECIFICATIONS:

FAA TSO-C144, DO-160D, DO-228, MIL-C-5541,
MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

SIZE:	POLARIZATION:	LNA:
1: 2" SQ.	R: RHCP	A: WITH LNA
1.9: 1.9" SQ.	L: LHCP	A: WITH LNA/LIMITER
2: 2.6" DIA.		P: WITHOUT LNA
3: 3.5" DIA.		
4: MINI ARINC		

P/N: 2GNSS16X-P-196MT-1

CABLE'S LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAG., N: No Mag.	M: MMCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
#: CABLE LENGTH (IN)	N: N. NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE (CN)	T: TNC. TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

2. MOUNTING SCREWS & ADHESIVE GASKET ARE SUPPLIED BY ANTCON
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

[illegible]

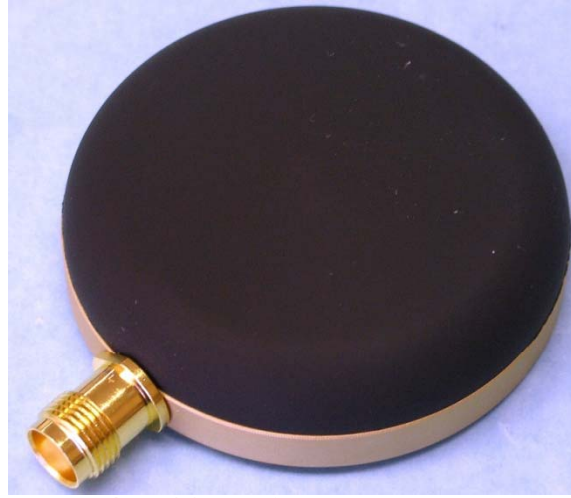
IRIDIUM Approved Antennas, P/N: S2IR16RR-P-XXX-X: 2.6" Diameter, with/without Magnetic Mount Configuration



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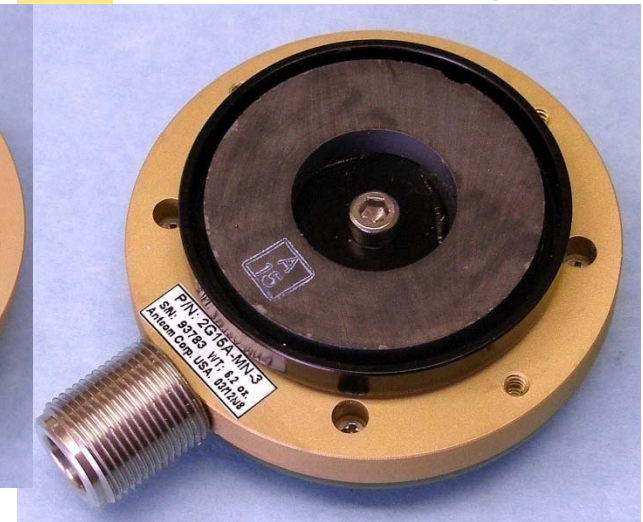
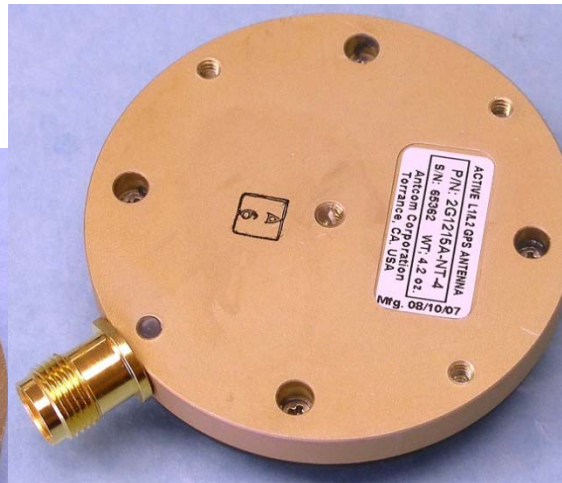
P/N: S2IR16RR-P-XMT-4
TNC Connector, Black, Magnet



P/N: S2IR16RR-P-XNT-4
TNC Connector, Black, No Magnet



P/N: S2IR16RR-P-XMN-4
N Connector, Black, Magnet



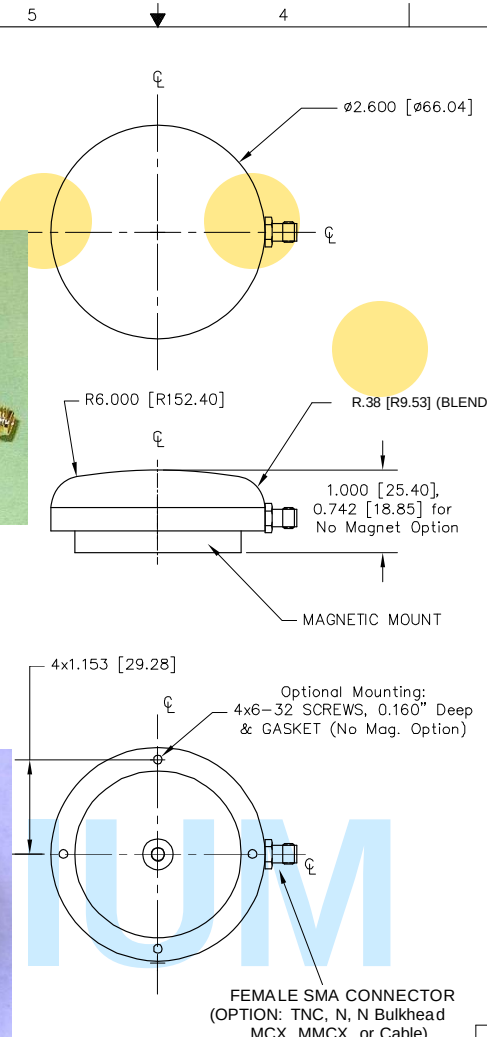
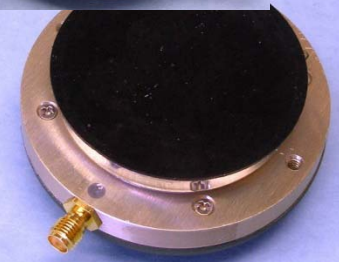
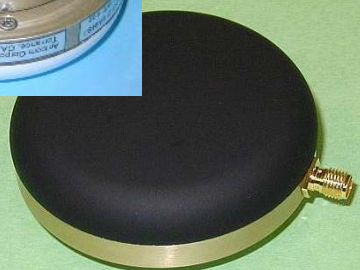
Hermetically Sealed, Designed for Harsh Environment Applications.
Connector is Available in SMA, MCX, MMCX, TNC, TNC-B, N, or N-Bulkhead (See Drawing)

IRIDIUM Approved Antennas, P/N: S2IR16RR-P-MS-X:

2.6" Diameter, Magnetic Mount Configuration



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ELECTRICAL:

FREQUENCY:	(1610.0 - 1626.5) MHz
RADIATION PATTERN:	HEMISPHERICAL
POLARIZATION:	RHCP
VSWR:	<1.5:1
GAIN (dB):	4 ft G.P. Free Space
@ 90° (Zenith):	+4.9 +4.4
@ 10° Elevation (Ave):	-1.0 -2.6
@ 20° Elevation (Ave):	+1.5 -1.0
@ 30° Elevation (Ave):	+2.4 +0.4
@ 45° Elevation (Ave):	+3.3 +2.5
@ 70° Elevation (Ave):	+4.7 +4.0
Beam Width (3dB):	129° +106°
AXIAL RATIO @ Zenith:	2.0 dB
IMPEDANCE:	50 Ohms
POWER HANDLING:	200 Watt
DC GROUNDING:	YES (LIGHTNING PROTECTION)

MECHANICAL:

SIZE:	DIAMETER = 2.60 in. [66.04 mm] HEIGHT = 0.690 in. [17.53 mm]
WEIGHT:	5.15 oz. (146 g)
FINISH:	SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5441
COLOR:	GLOSS WHITE #17925 PER FED-STD-595B LUSTERLESS GRAY #36320 PER FED-STD-595B OLIVE DRAB GREEN #34031 PER FED-STD-595B LUSTERLESS BLACK #37038 PER FED-STD-595B
MATERIAL:	6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT AND SKYDROL RESISTANCE, FIRE RETARDANT
CONNECTOR:	SMA FEMALE CONNECTOR, (OPTION: TNC, N, N Bulkhead, MCX, MMCX, or Cable)
MOUNTING:	FLAT FIXED MOUNT; ADHESIVE GASKET & MOUNTING NUT PROVIDED
ENVIRONMENTAL:	TEMPERATURE: -67° F to +185° F [-55° C to +85° C] ALTITUDE: 70,000 ft. VIBRATION: > 30 G's LEAKAGE: HERMETICALLY SEALED
FEDERAL & MILITARY SPECIFICATIONS:	DESIGN TO: FAA TSO-C144, DO-160D, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

CONFIGURATION:	POLARIZATION:	LNA:	CABLE LENGTH:	CONNECTOR:	COLOR:
1: 2" SQ. (FLAT)	LL: TX: LHCP, RX: LHCP	A1: WITH +34 dB LNA	X: NO CABLE	S: SMA, P: PINS	1: GLOSS WHITE #17925 PER FED-STD-595B
1.9: 1.9" SQ. (FLAT)	LR: TX: LHCP, RX: RHCP		M: WITH MAG. MOUNT	M: MCX, MM: MMCX	2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA. (FLAT)	RL: TX: RHCP, RX: LHCP	P: WITHOUT LNA	#: CABLE LENGTH (IN)	N: N, NB: N Bulkhead	3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
3: 3.5" DIA. (FLAT)	RR: TX: RHCP, RX: RHCP		R: RIGHT ANGLE CON.	T: TNC, TB: TNC Bulkhead	4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARINC (FLAT)					
53: (HELIX ROD)					
5B: (HELIX BLADE)					
3D: (HELIX HANDHELD)					

NOTES: UNLESS OTHERWISE SPECIFIED:
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
2. ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

P/N: S2IR16RR-P-MS-1

MOUNTING SCREWS: 10-32, 3/4"	MS24693C274	-	-	5
ADHESIVE GASKET	123456-3M-3G	-	-	3
QUANTITY	DESCRIPTION	PART NO	MATERIAL	FINISH
2	1			
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 ± .015 ± 1° TOLERANCE SYM PER ANSI Y14.5 REMOVE ALL BURRS BEFORE CRYSTALLINE EXPOSED TO .015 FILED TO .015 SCREW THREADS PER MIL-S-8879 DAYS ON A COMMON LOT .005 MACHINED SURFACES 1/2				
DO NOT SCALE DRAWING	CAD FILE NO	SCALE 1/1	SHEET 1 OF 1	

ANTCOM CORP. TORRANCE, CA
2.6" Dia. FLAT MAGNETIC MOUNT
IRIDIUM APPROVED ANTENNA



ISO9001

New IRIIDIUM/GPS/Inmarsat or Thuraya Antenna

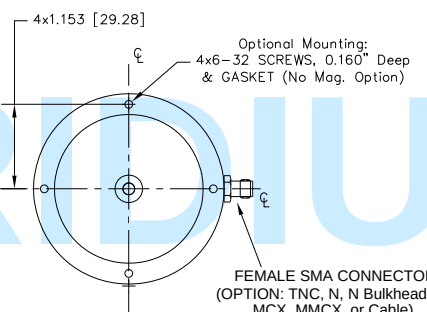
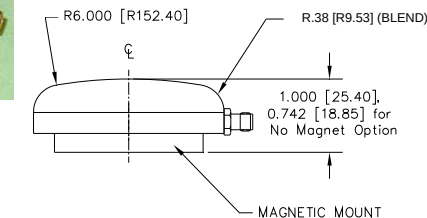
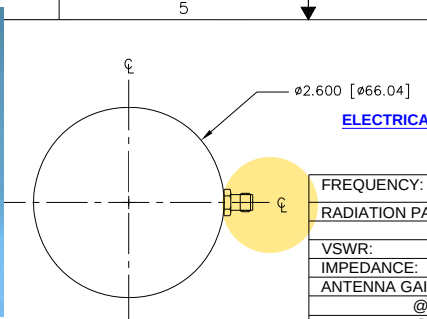
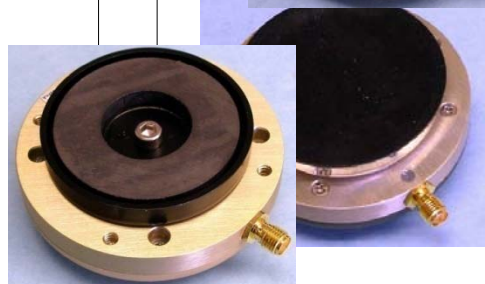
P/N: 2GNSS16R-P-MS-1 (Inmarsat/Iridium /GPS RHCP), P/N: 2GNSS16L-P-MS-1 (Thuraya LHCP)

2.6" Diameter, Flat, Magnetic Mount, Side Connector Configuration

3.5in Dia., Mini-Arinc, & Arinc-743 Versions are also available



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SPECIFICATIONS

	Rx-Thuraya (LHCP), or Rx Inmarsat OmniStar, L6 Galileo, B1 Compass (RHCP)	L1 GPS, E1, E2 Galileo, L1 IRNSS (RHCP)	IRIDIUM, L1 GLONASS (RHCP) or Tx-Globalstar (LHCP)	Tx-Thuraya (LHCP) or Tx-Inmarsat (RHCP)
FREQUENCY:	(1542.5 ± 17.5) MHz	(1575 ± 17) MHz	(1609 -1626) MHz	(1642.5 ± 17.5) MHz
RADIATION PATTERN:	HEMISPHERICAL			
VSWR:	< 2.0:1	< 2.0:1	< 2.0:1	< 2.0:1
IMPEDANCE:	50 ohms	50 ohms	50 ohms	50 ohms
ANTENNA GAIN (dBic):	Free Space	4 ft G.P.	Free Space	4 ft G.P.
@ 90 ° (ZENITH):	+ 2.5	+ 1.6	+ 3.7	- 1.5
@ 10 ° Elevation:	- 4.7	- 2.4	- 3.5	- 3.5
@ 20 ° Elevation:	- 3.8	+ 0.7	- 2.6	- 0.9
@ 30 ° Elevation:	- 2.1	+ 2.3	- 0.9	+ 0.3
@ 60 - 90 ° Elevation:	> + 1.0	> + 2.1	> + 2.3	> 0
BEAM WIDTH (3dB):	90 Deg.	140 Deg.	85 Deg.	140 Deg.
AXIAL RATIO:			3 dB	
LIGHTNING PROTECTION:	DC GROUNDING			

MECHANICAL:

SIZE: DIAMETER = 2.60 in. [66.04 mm]
HEIGHT = 0.583 in. [14.81 mm]
WEIGHT: 5.15 oz. (146 g)
FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDITE PER MIL-C-5441
MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT,
SKYDROL RESISTANCE, AND FIRE RETARDANT
CONNECTOR: SMA FEMALE
(OPTION: TNC, TNC Bulkhead, N, N Bulkhead,
MCX, MMCX, or Cable)

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]
ALTITUDE: 70,000 ft.
VIBRATION: > 30 G's
LEAKAGE: HERMETICALLY SEALED

FEDERAL & MILITARY SPECIFICATIONS:

FAA TSO-C144, DO-160D, D0-228, MIL-C-5541,
MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE:

ATP-GPS-L1L2-100

SIZE:	POLARIZATION:	LNA:
1: 2" SQ.	R: RHCP	A: WITH LNA
1.9: 1.9" SQ.	L: LHCP	A: WITH LNA/LIMITER
2: 2.6" DIA.		P: WITHOUT LNA
3: 3.5" DIA.		
4: MINI ARINC		

P/N: 2GNSS16X-P-MS-1

2. MOUNTING SCREWS & ADHESIVE GASKET ARE SUPPLIED BY ANTCOM
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
- NOTES: UNLESS OTHERWISE SPECIFIED:

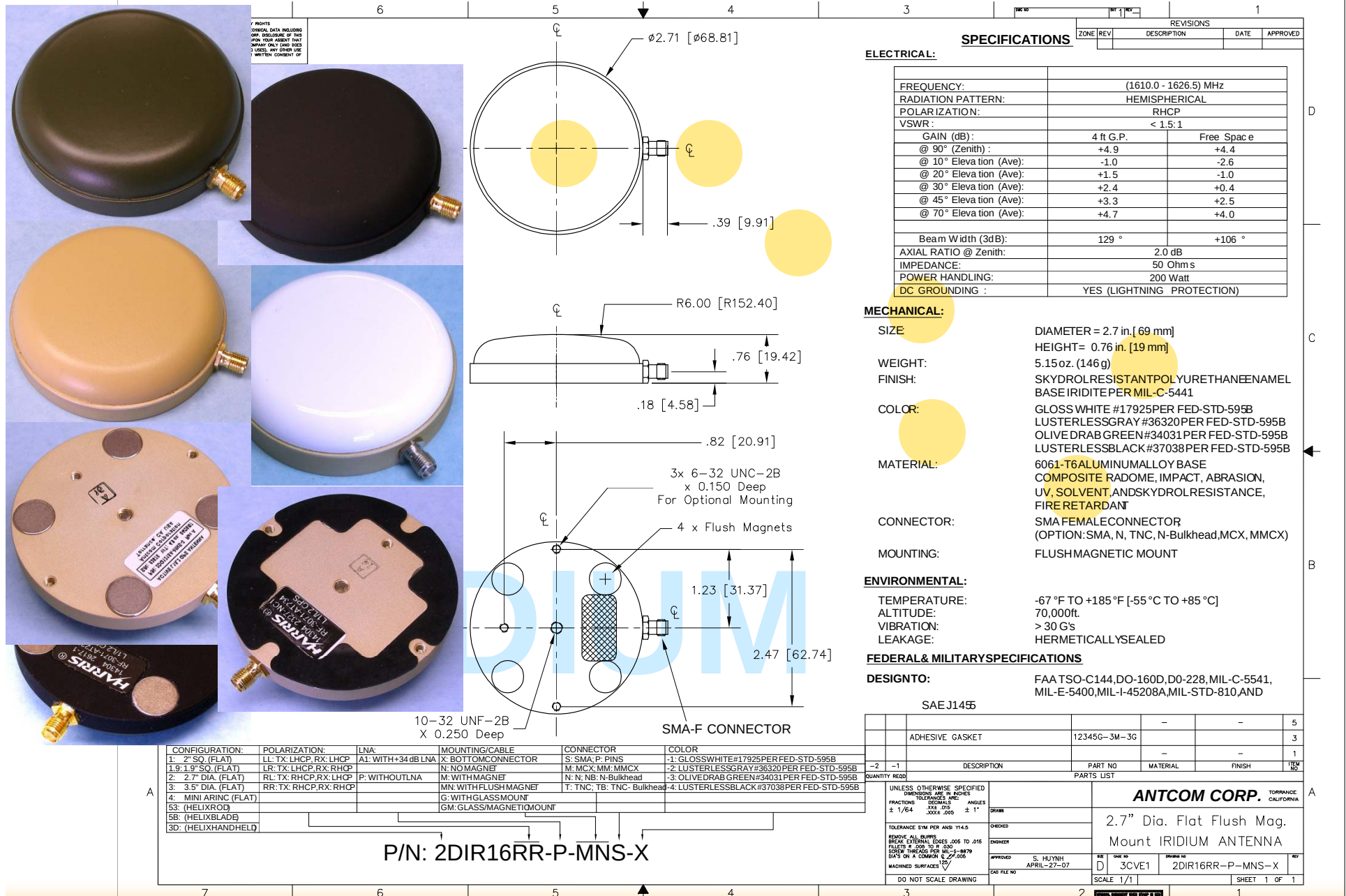
CABLE LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA, P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAG. N: No Mag.	M: MCX, MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
I: CABLE LENGTH (IN)	N: N, NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	T: TNC, TB: TNC Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

QUANTITY	DESCRIPTION	PART NO.	ITEM NO.
1	ADHESIVE MAGNET COVER	Magnet-Cover-3i (Item 541g3i)	1
1	ANTCOM CORP. TORRANCE, CALIFORNIA		
1	2.6" Dia., Magnetic Mount THURAYA or IRIIDIUM/GPS INMARSAT/GLONASS/ANTENNA		
1	3CVE12GNSS16X-P-MX-X		
1	SCALE 1/1		
1	SHEET 1 OF 1		

IRIDIUM Antennas, P/N: 2DIR16RR-P-MNS-X: 2.7" Diameter, Flat/Flush Magnetic Mount Configuration



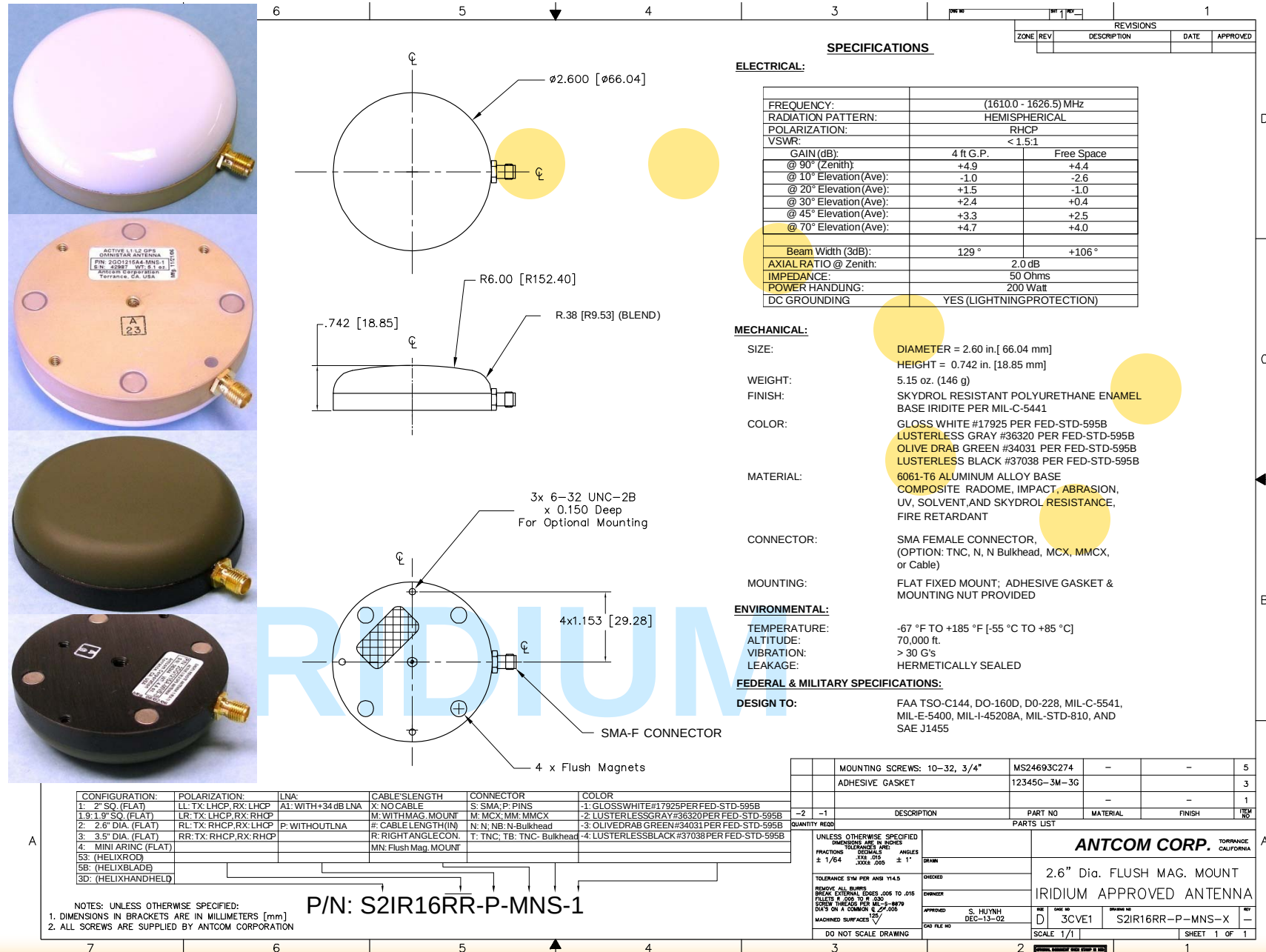
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IRIDIUM Approved Antennas, P/N: S2IR16RR-P-MNS-X: 2.6" Diameter, Magnetic Mount Configuration



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P/N: S2IR16RR-P-196GT-1,
(-1: White, -2: Gray, -3: Green, -4: Black, -5: Desert Sand)



P/N: S2IR16RR-P-GMS-1,
(-1: White, -2: Gray, -3: Green, -4: Black, -5: Desert Sand)

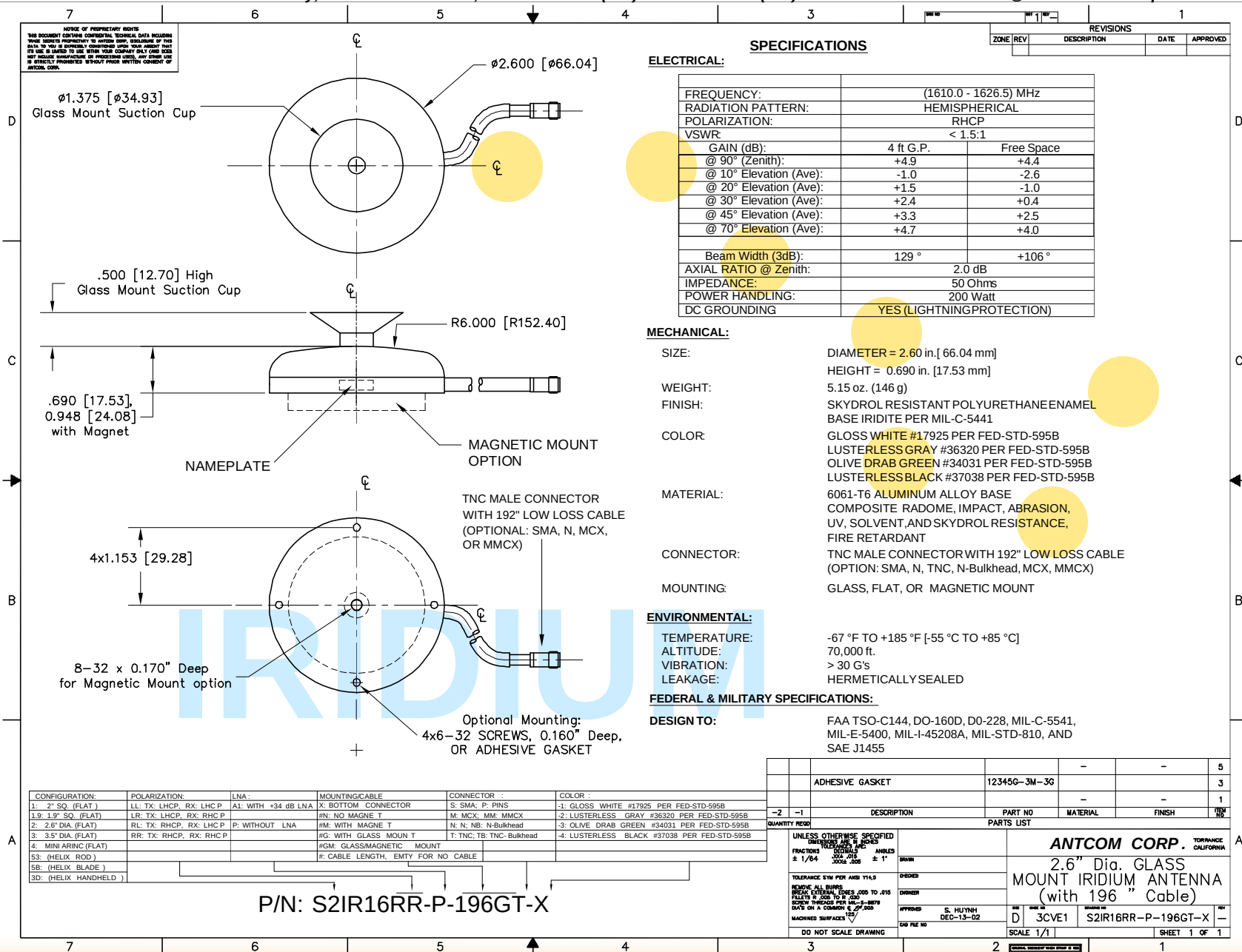


P/N: S2IR16RR-P-GT-1,
(-1: White, -2: Gray, -3: Green, -4: Black, -5: Desert Sand)



Hermetically Sealed, Designed for Harsh Environment Applications.

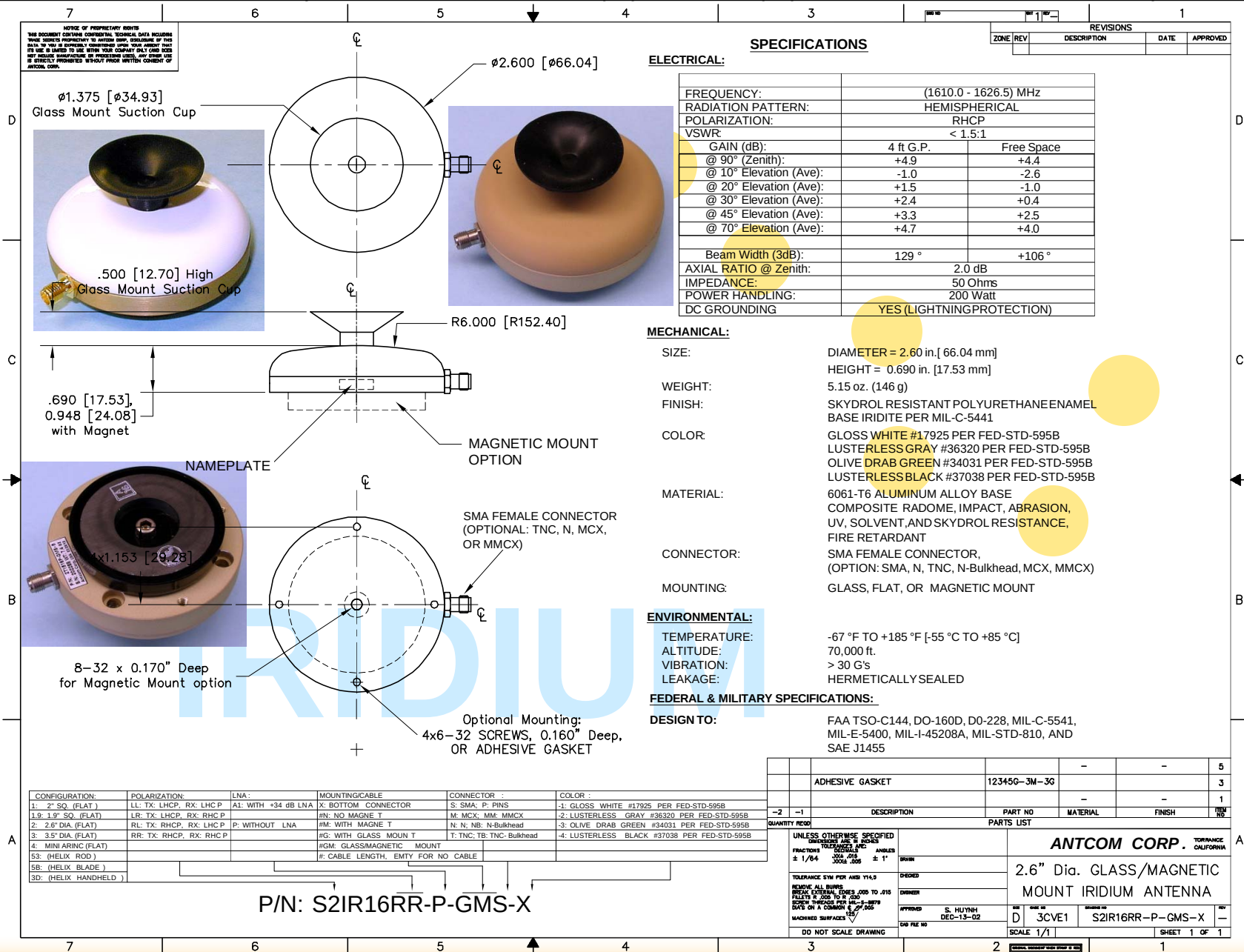
Connector is Available in SMA, MCX, MMCX, TNC, TNC-B, N, or N-Bulkhead (See Drawing)



Glass Mount IRIDIUM Antennas, P/N: S2IR16RR-P-GMS-X: 2.6" Diameter, Glass/Magnetic Mount Configurations



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IRIDIUM Approved Antenna, P/N: S2IR16RR-P-XX-X : 2.6" Diameter, Bulkhead/Back Mount Configurations



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P/N: S2IR16RR-P-XTB-1
(White)



P/N: S2IR16RR-P-XTB-3
(Green)



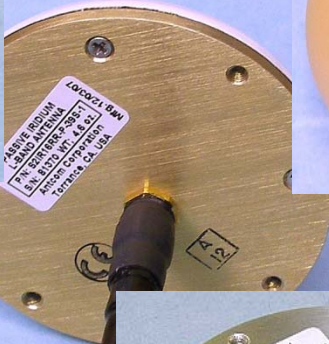
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(Black)



P/N: S2IR16RR-P-XS-X
(SMA)



P/N: S2IR16RR-P-XTB-2
(Gray)



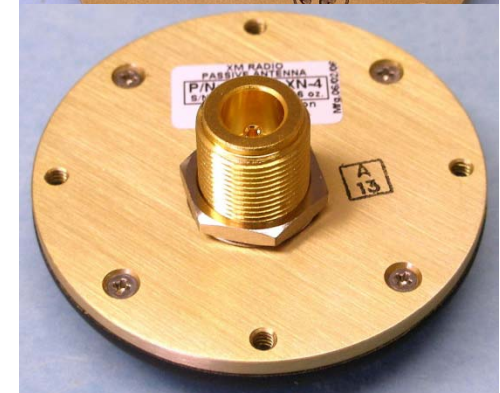
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(Desert Tan)



P/N: S2IR16RR-P-XT-X
(TNC)

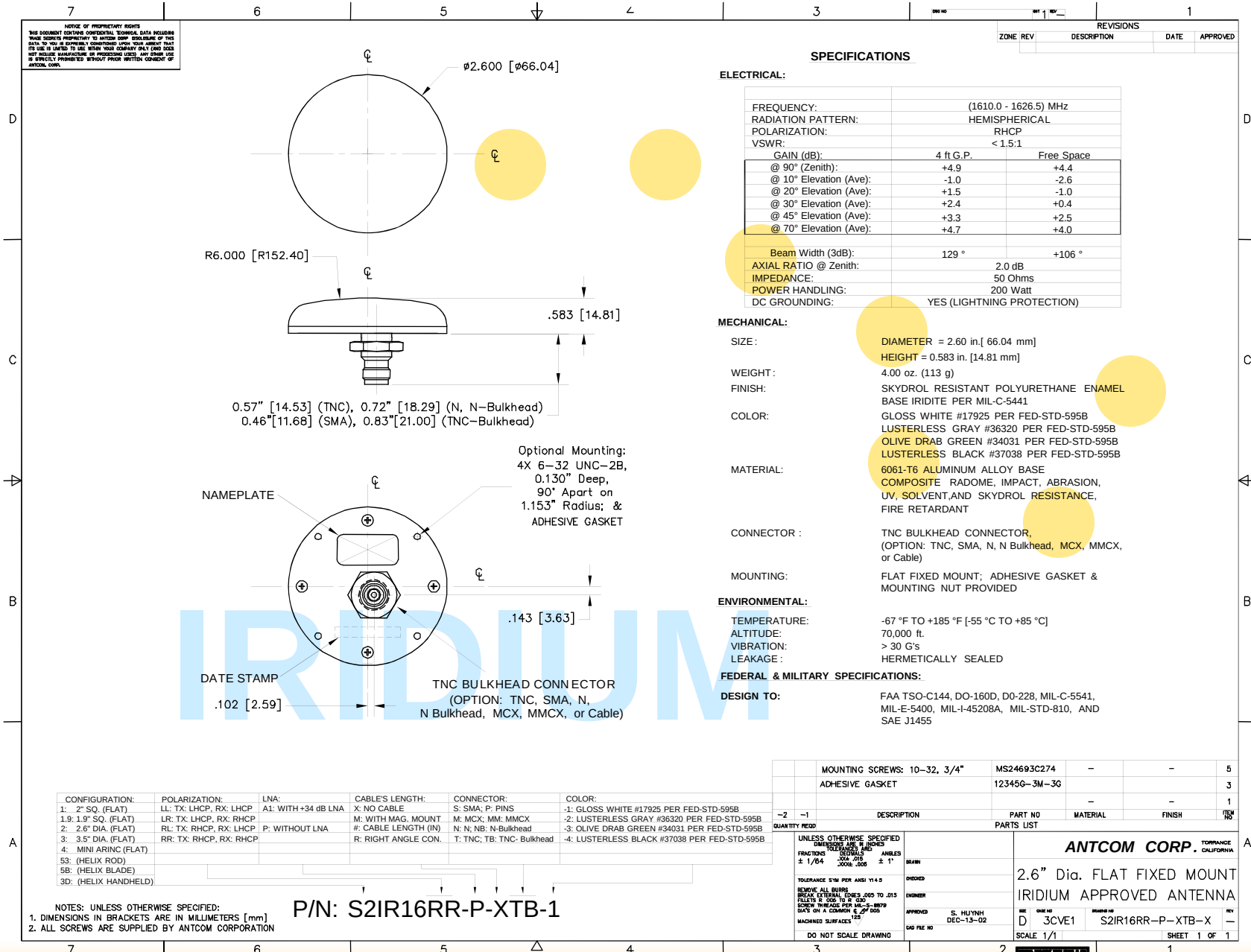


P/N: S2IR16RR-P-XTB-X
(TNC-B)



P/N: S2IR16RR-P-XN-X
(N)

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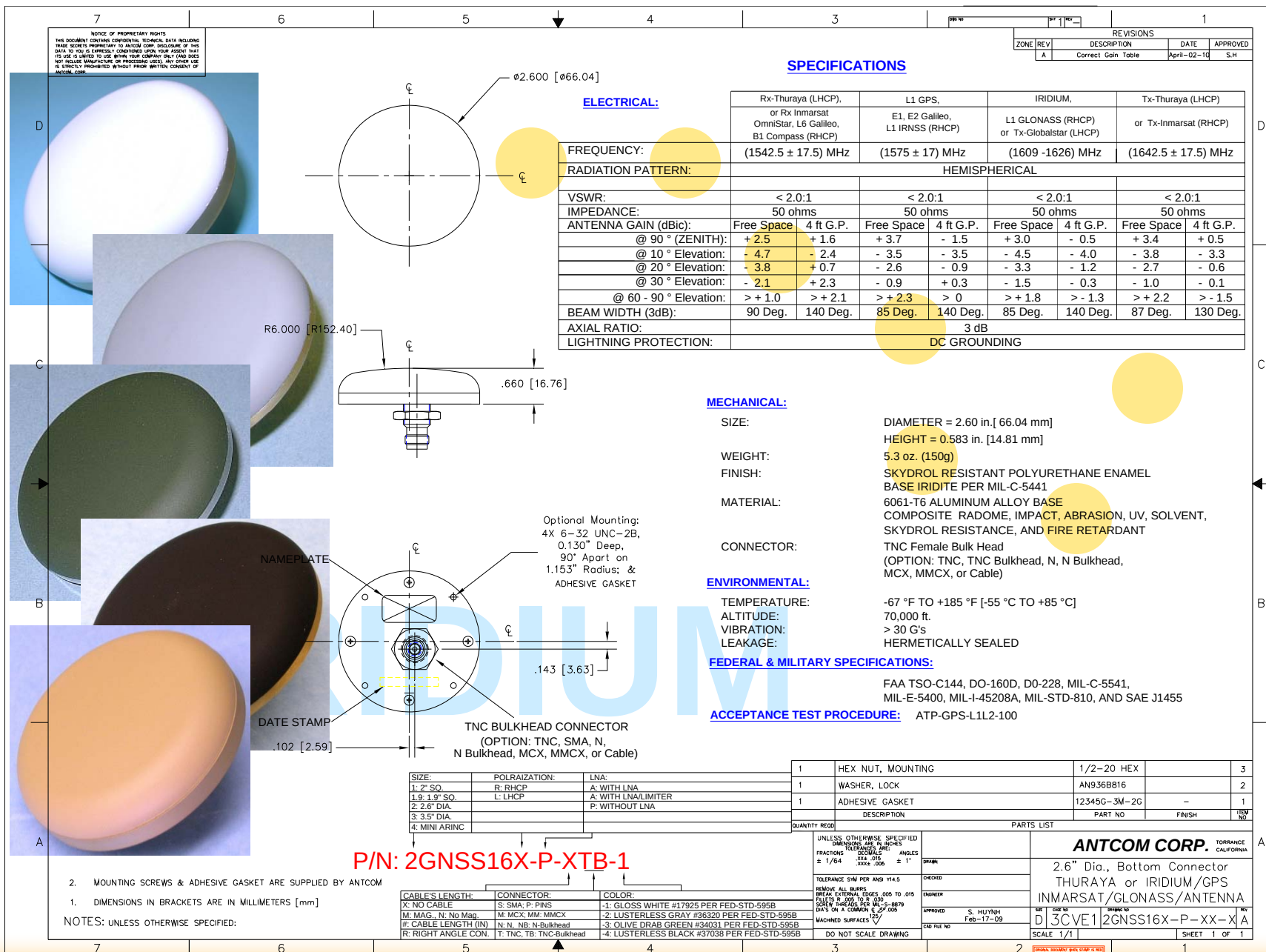




New IRIDIUM/GPS/Inmarsat or Thuraya Antenna
P/N: 2GNSS16R-P-XTB-1 (Inmarsat/Iridium/GPS RHCP), P/N: 2GNSS16L-P-XTB-1 (Thuraya LHCP)
2.6" Diameter, Flat, Back Mount, Bottom Connector Configuration
3.5in Dia., Mini-Arinc, & Arinc-743 Versions are also available



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IRIDIUM Approved Antenna, P/N: S3IR16RR-P-XTB-1 : 3.5" Diameter Configurations



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Hermetically Sealed, Designed for Harsh Environment Applications.

Connector is Available in SMA, MCX, MMCX, TNC, TNC-B, N, or N-Bulkhead (See Drawing)

IRIDIUM Approved Antenna, P/N: S3IR16RR-P-XX-X: 3.5" Diameter Configurations

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**P/N: S3IR16RR-P-XT-1
(White)**



**P/N: S3IR16RR-P-XT-2
(Gray)**



**P/N: S3IR16RR-P-XT-3
(Green)**



**P/N: S3IR16RR-P-XT-4
(Black)**



**P/N: S3IR16RR-P-XT-5
(Desert Tan)**



P/N: S2IR16RR-P-XS-X (SMA)



P/N: S2IR16RR-P-XTB-X (TNC-B)



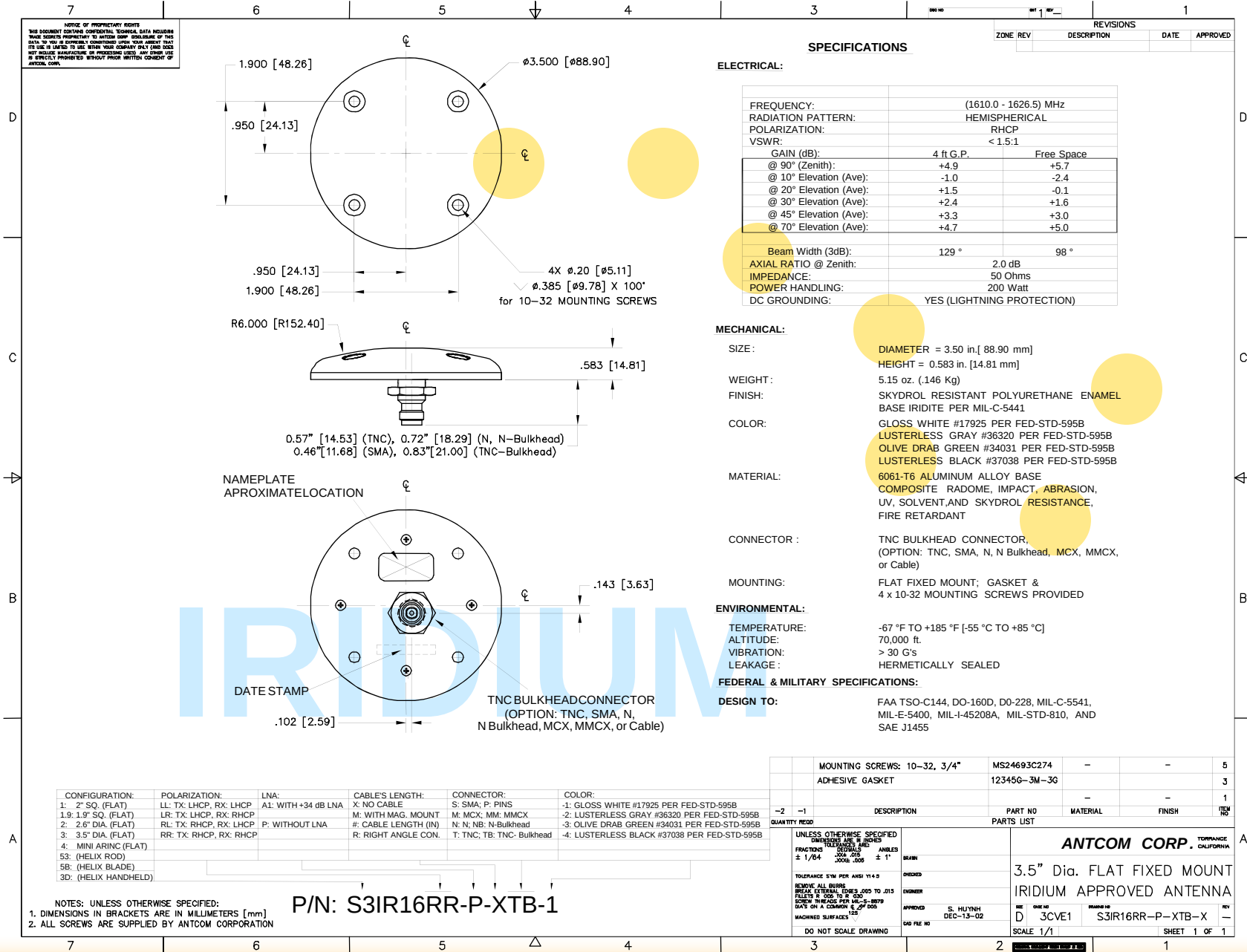
P/N: S2IR16RR-P-XN-X (N)

Hermetically Sealed, Designed for Harsh Environment Applications.

Connector is Available in SMA, MCX, MMCX, TNC, TNC-B, N, or N-Bulkhead (See Drawing)

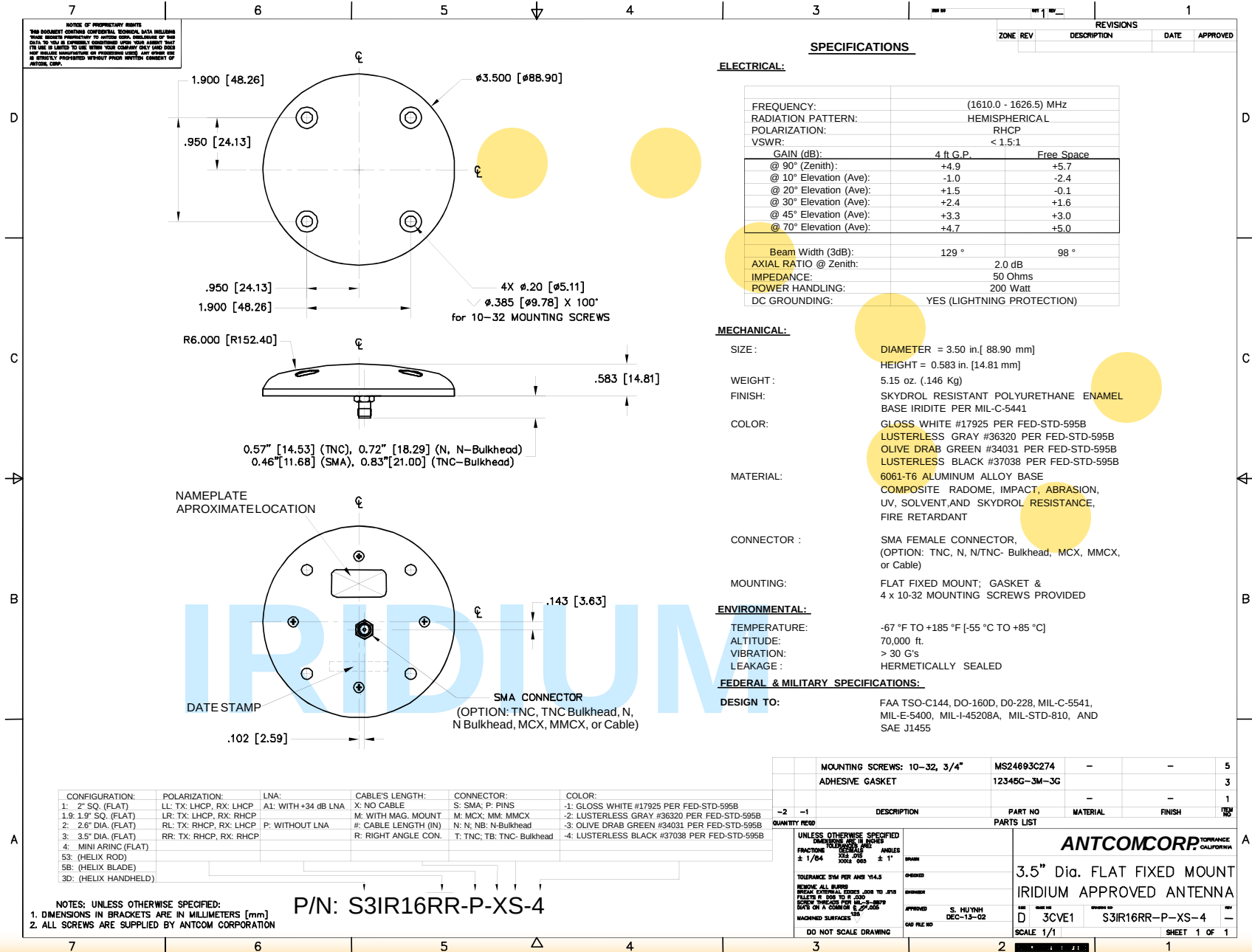
IRIDIUM Approved Antenna, P/N: S3IR16RR-P-XX-X: 3.5" Diameter Configurations

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IRIDIUM Approved Antenna, P/N: S3IR16RR-P-XS-X: 3.5" Diameter Configurations

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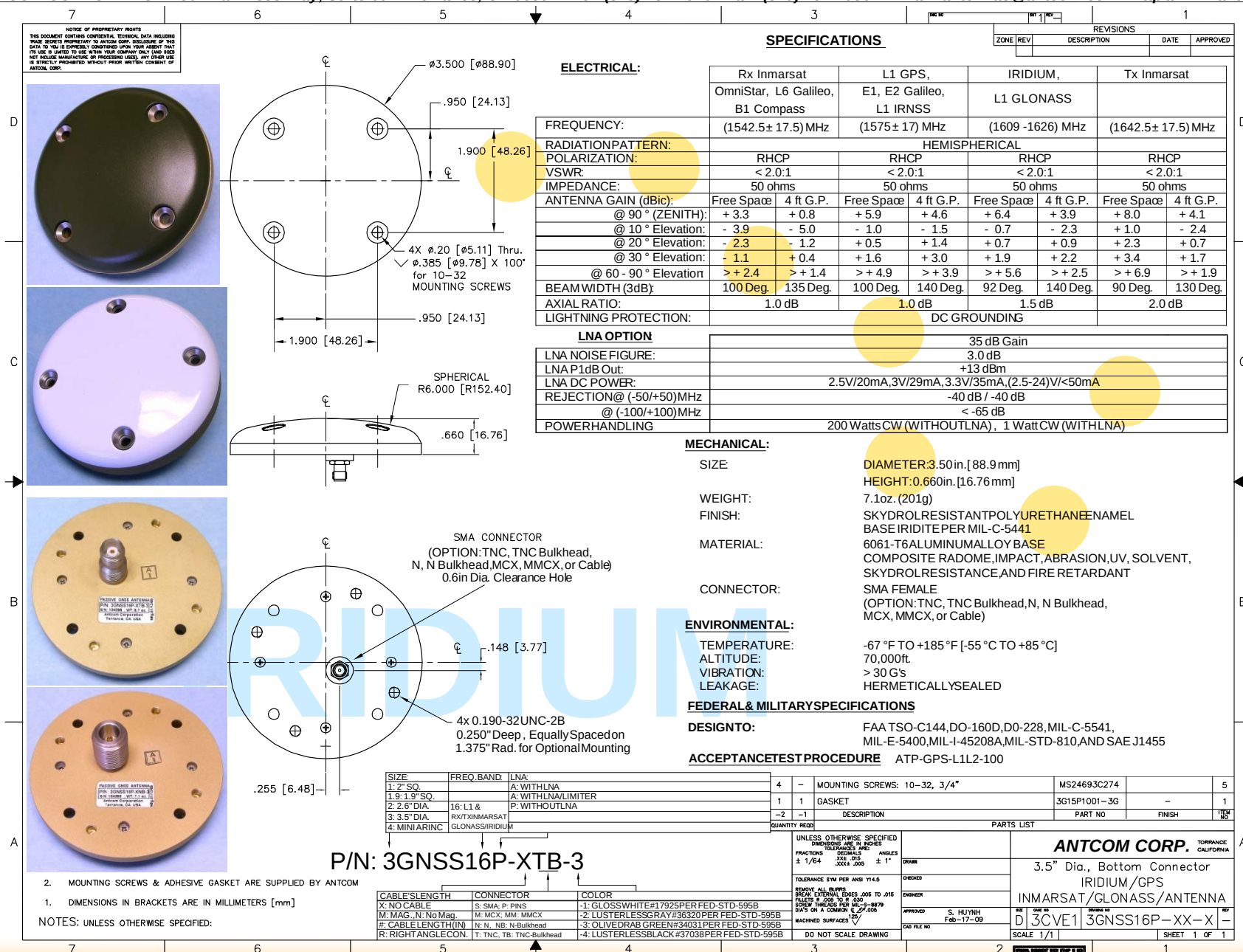




ISO9001

IRIDIUM/GPS/Inmarsat/L-Band Antenna, P/N: 3GNSS16P-XX-X:**3.5" Diameter, Flat, Front/Back Mount Configurations**

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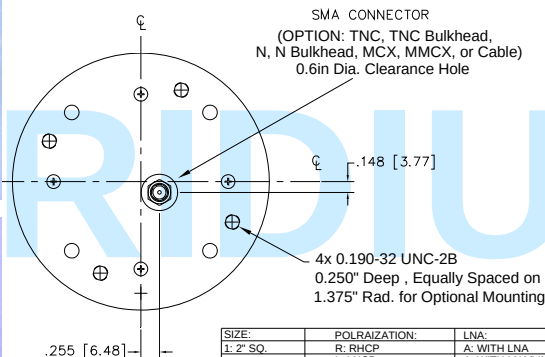
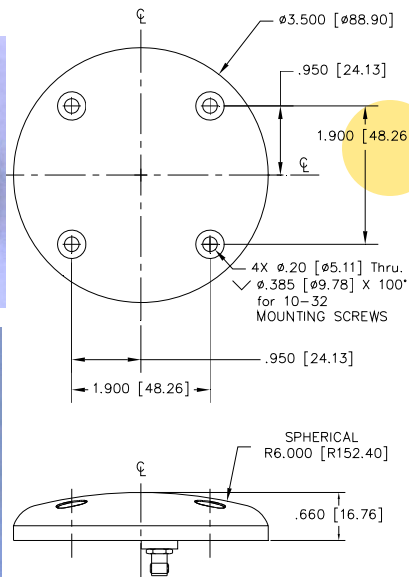
P/N: 3GNSS16R-P-XX-X (Inmarsat/Iridium RHCP), P/N: 3GNSS16L-P-XX-X (Thuraya LHCP),

3.5" Diameter, Flat, Back Mount, Bottom Connector Configuration
2.6in Dia., Mini-Arinc, & Arinc-743 Versions are also available



NOTICE OF PROPRIETARY RIGHTS

THIS DOCUMENT CONTAINS CONFIDENTIAL TECHNICAL DATA INCLUDING TRADE SECRETS PROPRIETARY TO ANITCOM CORP. DISCLOSURE OF THIS DATA TO YOU IS EXPRESSLY CONDITIONED UPON YOUR ASSENT THAT ITS USE IS LIMITED TO USE WITHIN YOUR COMPANY ONLY (AND DOES NOT INCLUDE MANUFACTURE OR PROCESSING USES). ANY OTHER USE IS STRICTLY PROHIBITED WITHOUT PRIOR WRITTEN CONSENT OF ANITCOM CORP.



SPECIFICATIONS

BLOCK:	Rx-Thuraya (LHCP)	L1 GPS,	IRIDIUM,	Tx-Thuraya (RHCP)
	or Rx Innmarsat OmniStar, L6 Galileo, B1 Compass (RHCP)	E1, E2 Galileo, L1 IRNSS (RHCP)	L1 GLONASS (RHCP) or Tx-Globalstar (LHCP)	or Tx-Innarsat (RHCP)
FREQUENCY:	(1542.5 ± 17.5) MHz	(1575 ± 17) MHz	(1609 -1626) MHz	(1642.5 ± 17.5) MHz
RADIATION PATTERN:	HEMISPHERICAL			
VSWR:	< 2.0:1	< 2.0:1	< 2.0:1	< 2.0:1
IMPEDANCE:	50 ohms	50 ohms	50 ohms	50 ohms
ANTENNA GAIN (dBic):	Free Space 4 ft G.P.	Free Space 4 ft G.P.	Free Space 4 ft G.P.	Free Space 4 ft G.P.
@ 90 ° (ZENITH):	+ 2.5 + 1.6	+ 3.7 - 1.5	+ 3.0 - 0.5	+ 3.4 + 0.5
@ 10 ° Elevation:	- 4.7 - 2.4	- 3.5 - 3.5	- 4.5 - 4.0	- 3.8 - 3.3
@ 20 ° Elevation:	- 3.8 + 0.7	- 2.6 - 0.9	- 3.3 - 1.2	- 2.7 - 0.6
@ 30 ° Elevation:	- 2.1 + 2.3	- 0.9 + 0.3	- 1.5 - 0.3	- 1.0 - 0.1
@ 60 - 90 ° Elevation:	> + 1.0 >+ 2.1	> + 2.3 > 0	> + 1.8 >- 1.3	> + 2.2 >- 1.5
BEAM WIDTH (3dB):	90 Deg., 140 Deg.	85 Deg., 140 Deg.	85 Deg., 140 Deg.	87 Deg., 130 Deg.
AXIAL RATIO:	3 dB			
LIGHTNING PROTECTION:	DC GROUNDING			
LNA OPTION:				
LNA NOISE FIGURE:	33 dB Gain 3.0 dB			
LNA P1dB Out:	+13 dBm			
LNA DC POWER:	2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24)V/<50mA			
REJECTION @ (-50/+50) MHz	-40 dB / -40 dB			
@ (-100/+100) MHz	< -65 dB			
POWER HANDLING:	100 Watts CW (WITHOUT LNA), 1 Watt CW (WITH LNA)			

MECHANICAL:

SIZE:	DIAMETER: 3.50 in.[88.9 mm]
	HEIGHT: 0.660in. [16.76 mm]
WEIGHT:	7.1oz. (201g)
FINISH:	SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5441
MATERIAL:	6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT
CONNECTOR:	SMA FEMALE (OPTION: TNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX, or Cable)

ENVIRONMENTAL:

TEMPERATURE:	-67 °F TO +185 °F [-55 °C TO +85 °C]
ALTITUDE:	70,000 ft.
VIBRATION:	> 30 G's
LEAKAGE:	HERMETICALLY SEALED

FEDERAL & MILITARY SPECIFICATIONS:

FAA TSO-C144, DO-160D, DO-228, MIL-C-5541,
MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

SIZE:	POLARIZATION:	LNA:
1: 2" SQ.	R: RHCP	A: WITH LNA
1.9: 1.9" SQ.	L: LHCP	A: WITH LNA/LIMITER
2: 2.6" DIA.		P: WITHOUT LNA
3: 3.5" DIA.		
4: MINI ARINC		

P/N: 3GNSS16X-P-XTB-3

CABLE'S LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #1925 PER FED-STD-595B
M: MAG., N: No Mag.	M: MCX; M: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
#: CABLE LENGTH (IN)	N: N, NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	T: TNC, TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

2. MOUNTING SCREWS & ADHESIVE GASKET ARE SUPPLIED BY ANTCOM

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

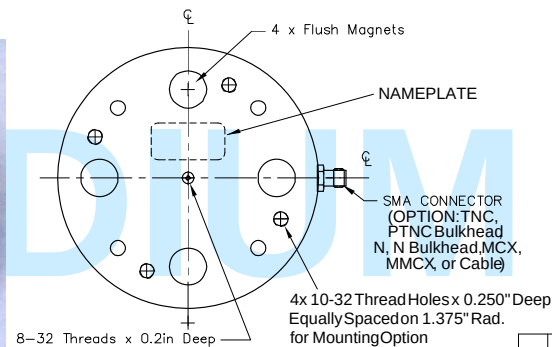
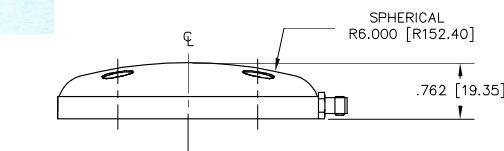
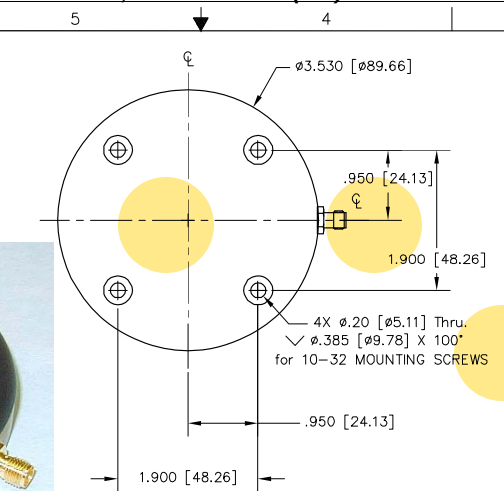
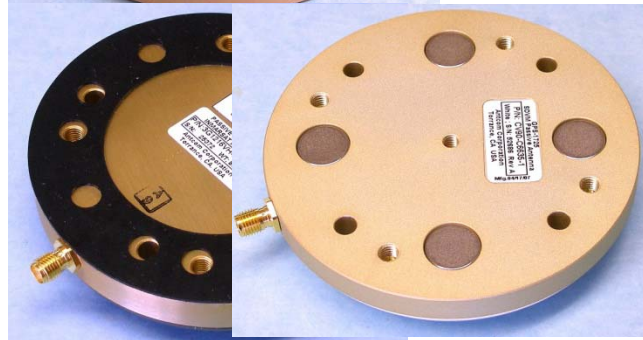
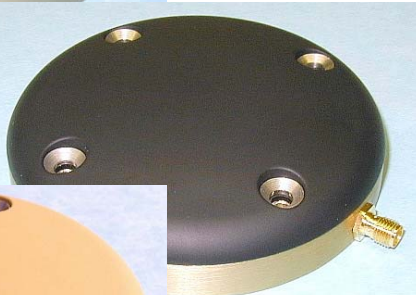
NOTES: UNLESS OTHERWISE SPECIFIED:

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES $\pm 1/64$ $\pm .005$ $\pm 1^\circ$	PART 1 OF 1	ANTCOM CORP.	TORREANCE
TOLERANCE SHW PER ANSI Y14.5 REMOVAL ALL BURRS BREAK ALL SHARP EDGES .010 (15) FINISH R .002 R .015 SURFACE TEXTURE 32-100 MACHINED SURFACES	DRAWN CHECKED APPROVED S. HULTYHN FEB-17-09	3.5" Dia., Bottom Connector THURAYA OR IRIDIUM/GPS INMARSAT/GLONASS/ANTENNA	1
DO NOT SCALE DRAWING	CAD FILE NO	SCALE 1/1	SHEET 1 OF 1

IRIDIUM Approved Antenna, P/N: S3IR16RR-P-MNX-X: 3.5" Diameter, Flat, Front/Back Flush Magnetic Mount Configurations



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SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	(1610.0 - 1626.5) MHz
RADIATION PATTERN:	HEMISPHERICAL
POLARIZATION:	RHCP
VSWR:	< 1.5:1
GAIN (dB):	4 ft G.P. Free Space
@ 90° (Zenith):	+4.9 +5.7
@ 10° Elevation (Ave):	-1.0 -2.4
@ 20° Elevation (Ave):	+1.5 -0.1
@ 30° Elevation (Ave):	+2.4 +1.6
@ 45° Elevation (Ave):	+3.3 +3.0
@ 70° Elevation (Ave):	+4.7 +5.0
Beam Width (3dB):	129° 98°
AXIAL RATIO @ Zenith:	2.0 dB
IMPEDANCE:	50 Ohms
POWER HANDLING:	200 Watt
DC GROUNDING:	YES (LIGHTNING PROTECTION)

MECHANICAL:

SIZE:	DIAMETER: 3.53 in. [89 mm] HEIGHT: 0.76 in. [19 mm]
WEIGHT:	6.8 oz. (191 g)
FINISH:	SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5441
COLOR:	GLOSS WHITE #17925 PER FED-STD-595B LUSTERLESS GRAY #36320 PER FED-STD-595B OLIVE DRAB GREEN #34031 PER FED-STD-595B LUSTERLESS BLACK #37038 PER FED-STD-595B
MATERIAL:	6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, AND SKYDROL RESISTANCE, FIRE RETARDANT
CONNECTOR:	TNC BULKHEAD CONNECTOR, (OPTION: TNC, SMA, N, N Bulkhead, MCX, MMCX, or Cable)
MOUNTING:	FLAT FIXED MOUNT; GASKET & 4 x 10-32 MOUNTING SCREWS PROVIDED
ENVIRONMENTAL:	TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C] ALTITUDE: 70,000 ft. VIBRATION: > 30 G's LEAKAGE: HERMETICALLY SEALED

FEDERAL & MILITARY SPECIFICATIONS:

DESIGN TO: FAA TSO-C144, DO-160D, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

QUANTITY	DESCRIPTION	PART NO.	MATERIAL	FINISH	REV.
4	MOUNTING SCREWS: 10-32, 3/4"	MS24693C274	-	-	5
1	EPDM NON-ADHESIVE GASKET	3G15P1001-3G	-	-	3
1	ADHESIVE GASKET	12345G-3M-3G	-	-	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± 1/64 ± .015 ± .1°		TOLERANCE 51M PER ANSI Y14.5 BREAK EXTERNAL EDGES .005 TO .015 FILLET R .031 ± .005 SCREW THREADS PER MIL-S-8879 DAYS ON A CANNOT 1/24/00 MACHINED SURFACES		DO NOT SCALE DRAWING
DATE	APR 28-07	DESIGNER	OWNER	APPROVED
DATE	APR 28-07	DESIGNER	OWNER	APPROVED

ANTCOM CORP. TORRANCE, CALIFORNIA

3.5" Dia. FLUSH MAG. MOUNT
IRIDIUM ANTENNA

REV. 1
3CVE1
S3IR16RR-P-MNS-X
SCALE 1/1
SHEET 1 OF 1

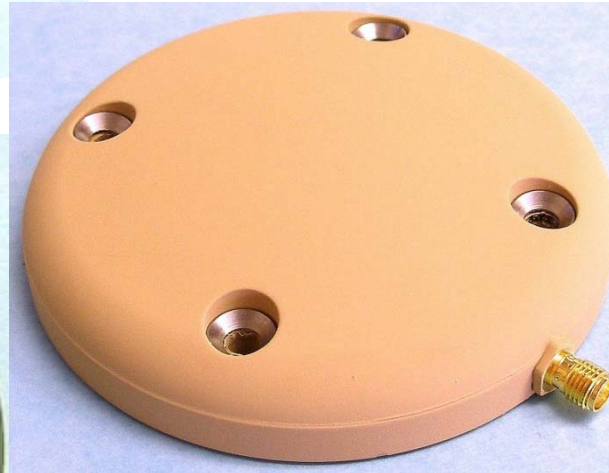
CONFIGURATION:	POLARIZATION:	LNA:	CABLE LENGTH:	CONNECTOR	COLOR
1: 2" SQ. (FLAT)	LL: TX: LHCP, RX: LHCP	AL: WITH +34 dB LNA	X: Bottom Connector	S: SMA; P: PINS	1: GLOSS WHITE #17925 PER FED-STD-595B
1.9: 1.9" SQ. (FLAT)	LR: TX: LHCP, RX: RHCP		MM: Flush Mag. MOUNT	M: MCX; MM: MMCX	2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA. (FLAT)	RL: TX: RHCP, RX: LHCP	P: WITHOUT LNA	N: No Magnet	N: N; NB: N-Bulkhead	3: OLIVEDRAB GREEN #34031 PER FED-STD-595B
3: 3.5" DIA. (FLAT)	RR: TX: RHCP, RX: RHCP		M: Big Non-Flush Mag.	T: TNC, TB: TNC- Bulkhead	4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARINC (FLAT)					
53: (HELIX ROD)					
5B: (HELIX BLADE)					
3D: (HELIX HANDHELD)					

NOTES: UNLESS OTHERWISE SPECIFIED:
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
2. ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

P/N: S3IR16RR-P-MNS-1



**P/N: S3IR16RR-P-NS-4,
SMA, Black**



**P/N: S3IR16RR-P-NS-5,
SMA, Tan**



Hermetically Sealed, Designed for Harsh Environment Applications.

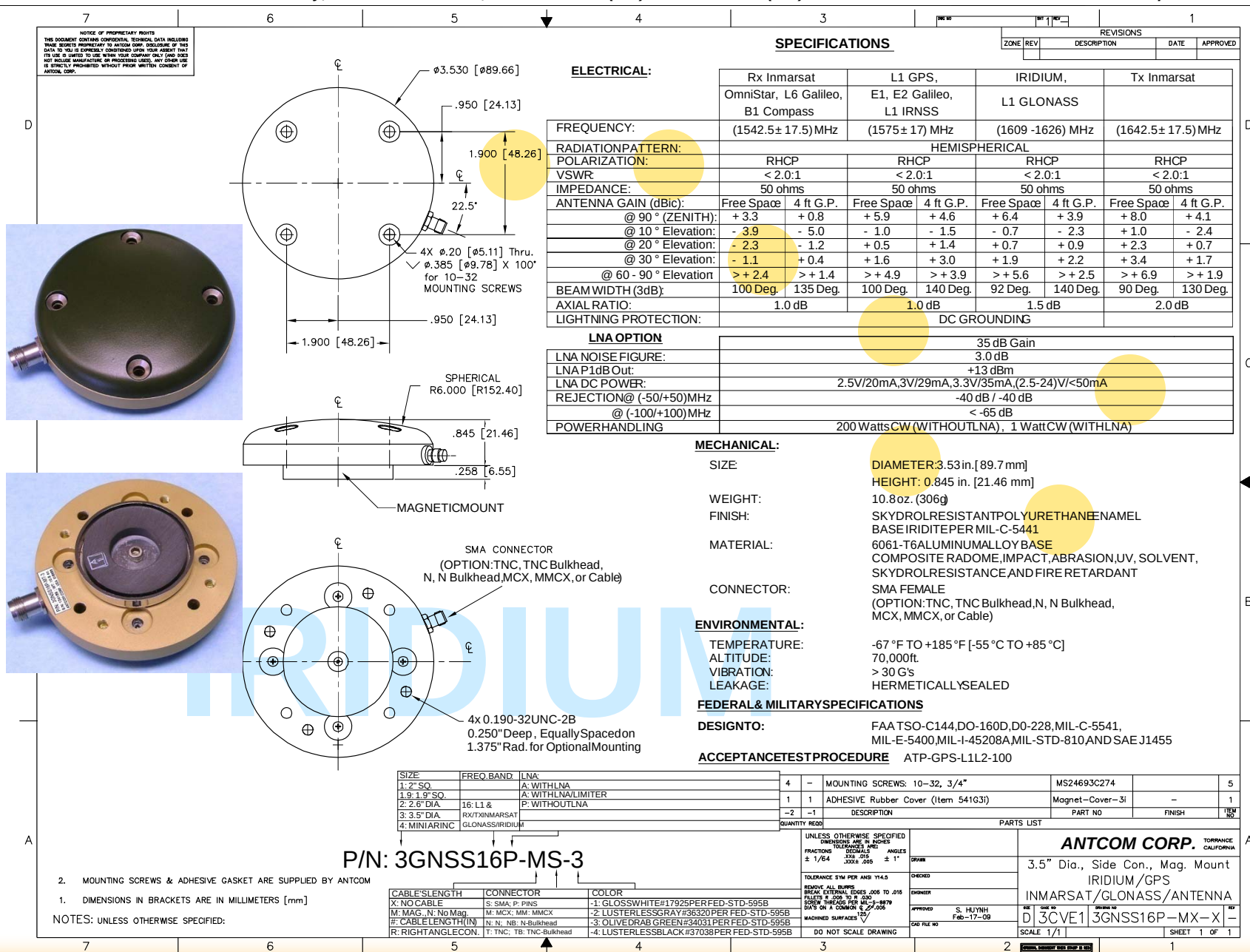
Connector is Available in SMA, MCX, MMCX, TNC, TNC-B, N, or N-Bulkhead (See Drawing)



ISO9001

IRIDIUM/GPS/Inmarsat/L-Band Antenna, P/N: 3GNSS16P-MX-X:**3.5" Diameter, Flat, Front/Back Magnetic Mount Configurations**

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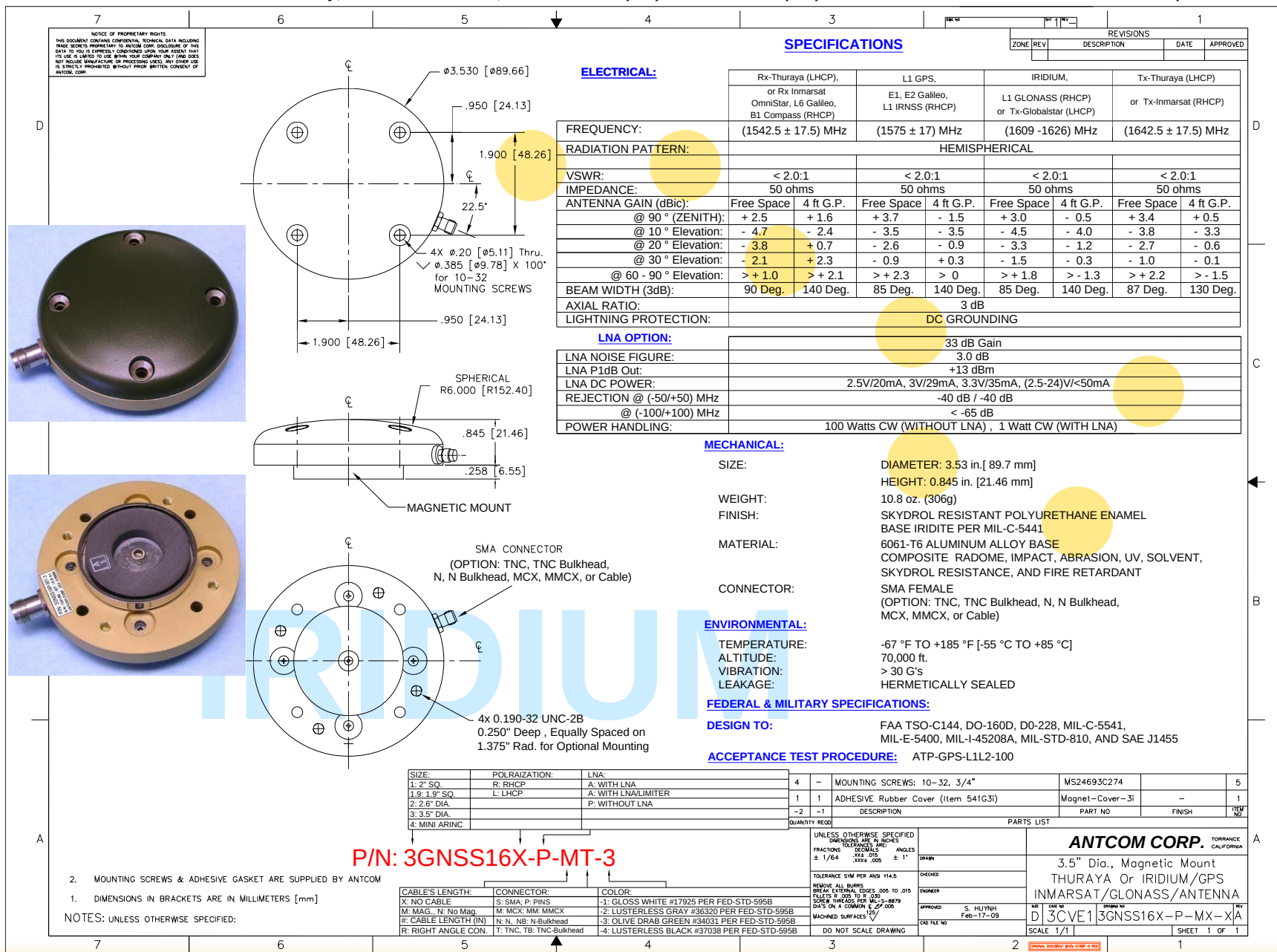


ISO9001

New **Thuraya** or **Inmarsat/IRIDIUM/GPS** Antenna, P/N: 3GNSS16**R**-P-MX-X (**Inmarsat/Iridium RHCP**), P/N: 3GNSS16**L**-P-MX-X (**Thuraya LHCP**), 3.5" Diameter, Flat, Front/Back Magnetic Mount Configurations 2.6in Dia., Mini-Arinc, & Arinc-743 Versions are also available



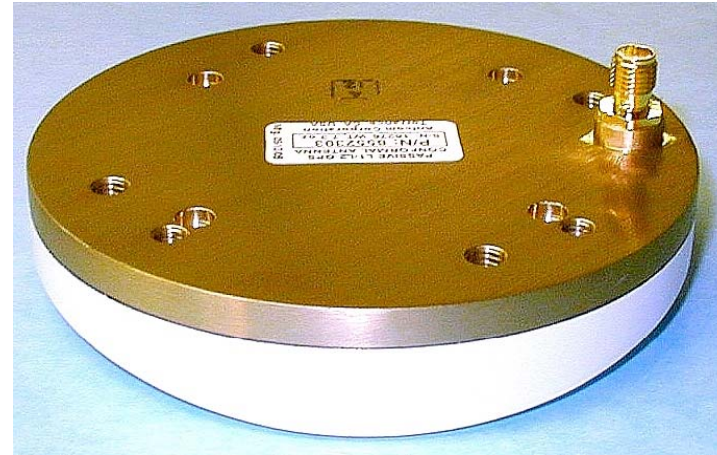
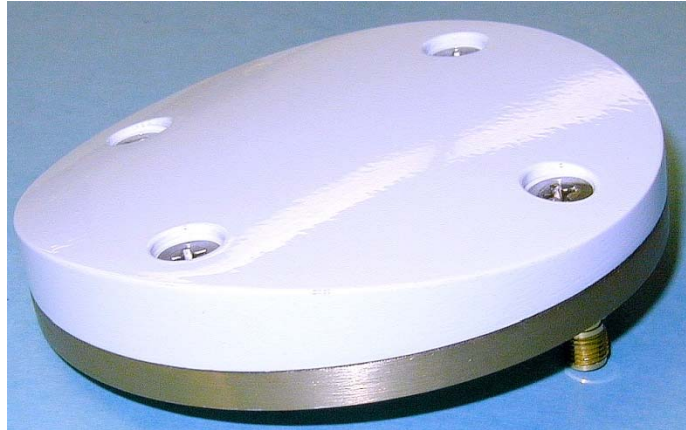
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IRIDIUM Approved Antenna, P/N: S3IR16RR-P-XX-X-X: 3.5" Diameter Conformal Configurations , Front/Back Mount



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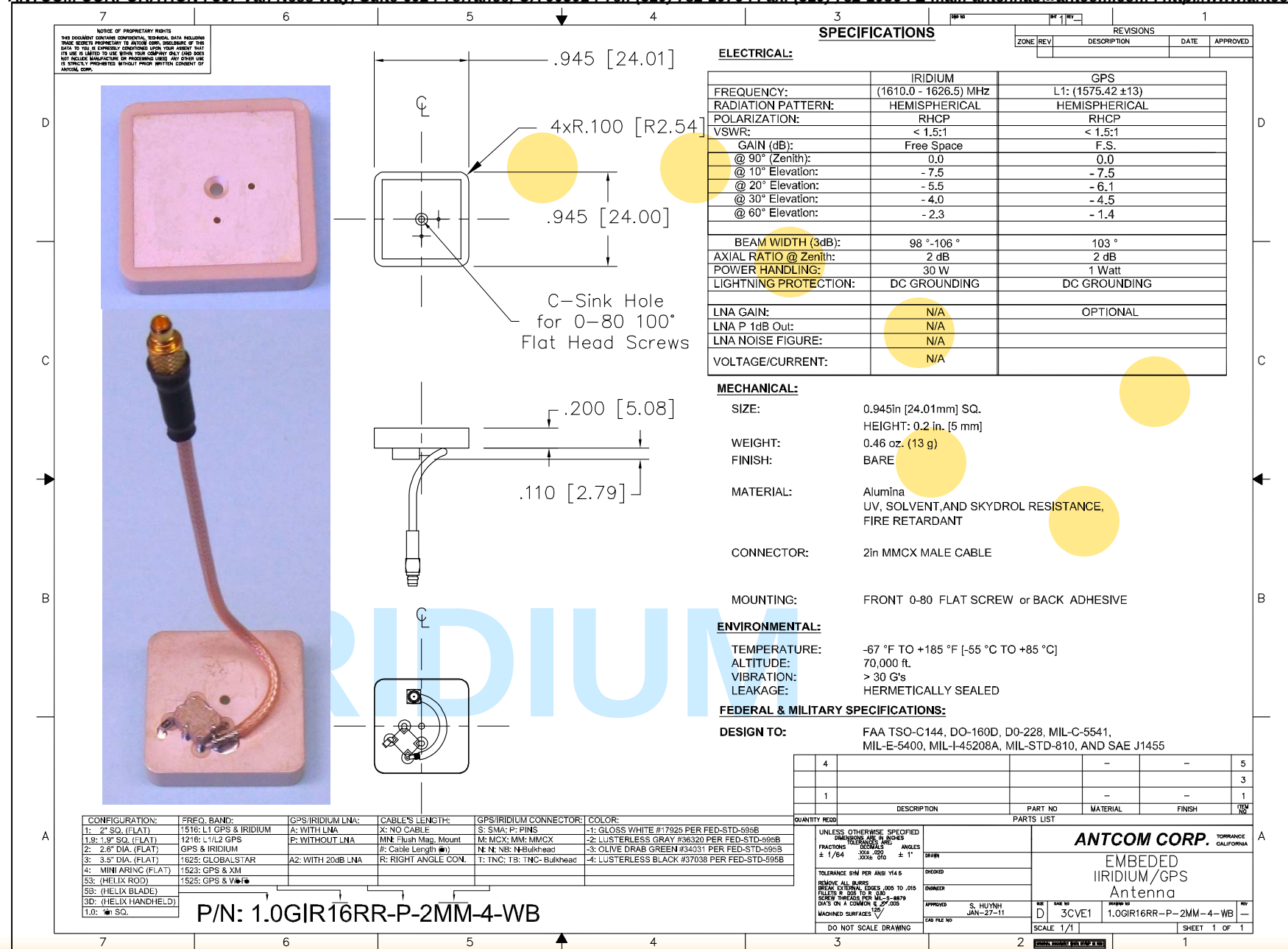


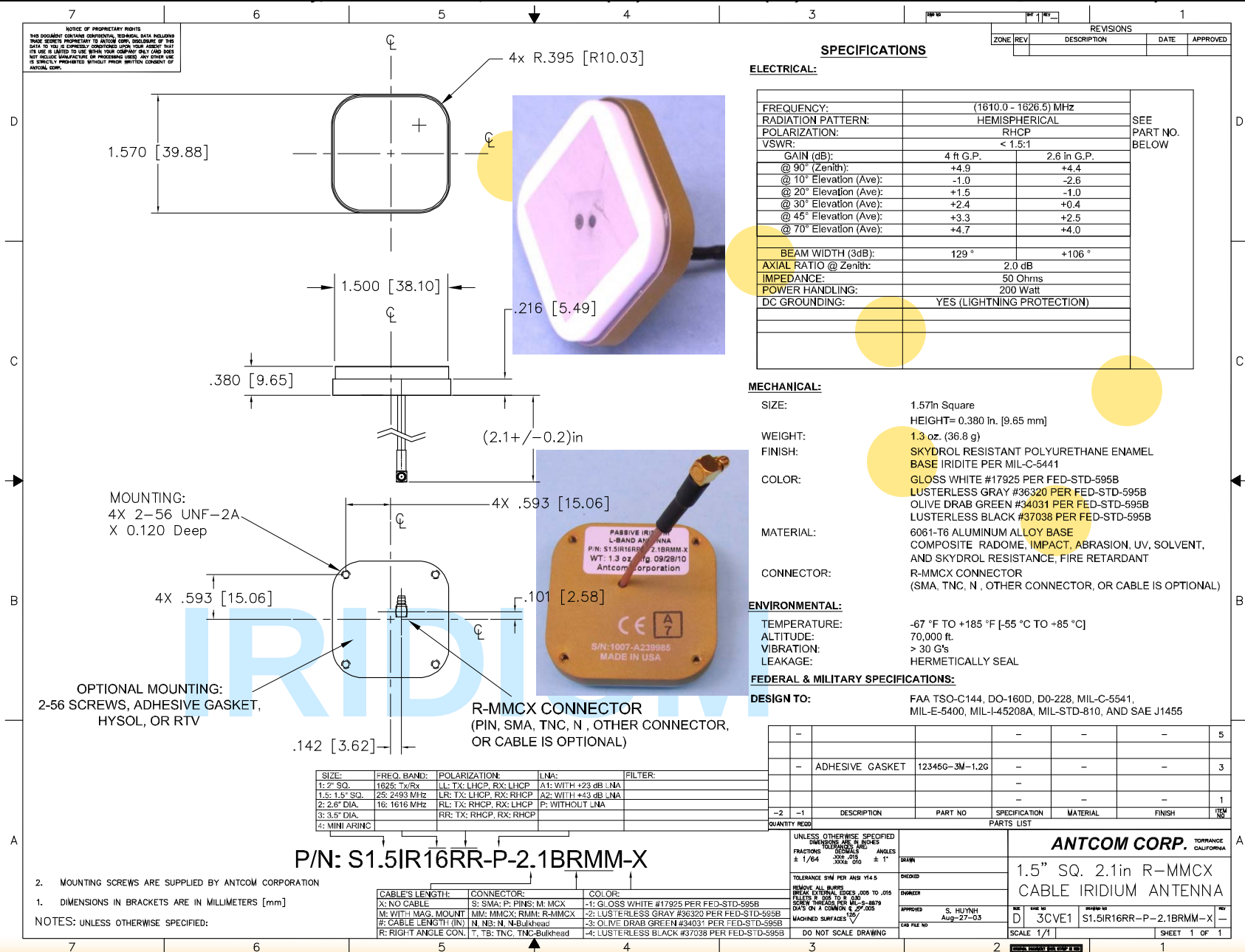
Embedded IIRIDIUM/GPS Antenna, P/N: 1.0GIR16RR-P-2MM-4-WB

1in. Square, Back/Front Mount, 2in MMCX Cable Configuration



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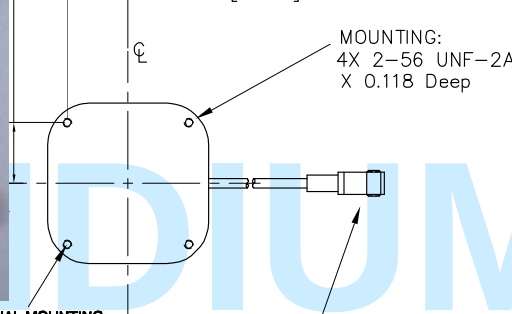
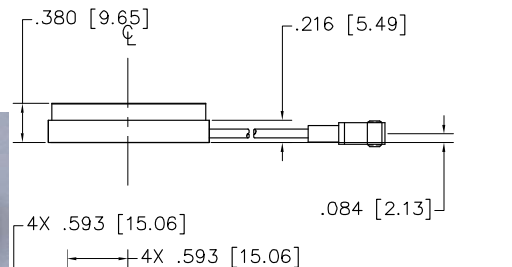
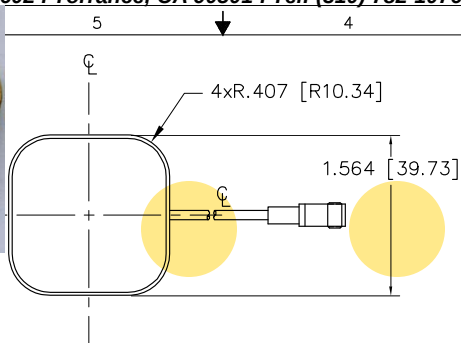




IRIDIUM Antennas, P/N: S1.5IR16RR-P-XX-X: 1.5" Square, **Back Mount** Configurations with Side Cable



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OPTIONAL MOUNTING:
2-56 SCREWS, ADHESIVE GASKET,
HYSOL, OR RTV

36" CABLE WITH FEMALE SMA CONNECTOR
(OPTIONAL: MCX, MMCX, TNC, N, OR OTHER CONNECTOR)

SIZE	FREQ. BAND	POLARIZATION	LNA	FILTER
1: 2" SQ.	1625 Tx/Rx	LL: TX: LHCP, RX: LHCP		
1.5: 1.5" SQ.	25: 2493MHz	LR: TX: LHCP, RX: RHCP		
2: 2.6" DIA.	16: 1616MHz	RL: TX: RHCP, RX: LHCP	P: WITHOUT LNA	
3: 3.5" DIA.		RR: TX: RHCP, RX: RHCP		
4: MINIARINC				

P/N: 1.5IR16RR-P-24NS-X

CABLE LENGTH	CONNECTOR	COLOR
X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: WITH MAG. MOUNT	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
F: CABLE LENGTH (IN)	N: N (Optional Bulkhead)	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	T: TNC (Optional Bulkhead)	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	(1610.0 - 1626.5) MHz	SEE PART NO. BELOW
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	RHCP	
VSWR:	< 1.5:1	
GAIN (dB):	4 ft G.P.	
@ 90° (Zenith):	+4.9	
@ 10° Elevation (Ave):	-1.0	
@ 20° Elevation (Ave):	+1.5	
@ 30° Elevation (Ave):	+2.4	
@ 45° Elevation (Ave):	+3.3	
@ 70° Elevation (Ave):	+4.7	
BEAM WIDTH (3dB):	129°	+106°
AXIAL RATIO @ Zenith:	2.0 dB	
IMPEDANCE:	50 Ohms	
POWER HANDLING:	200 Watt	
DC GROUNDING:	YES (LIGHTNING PROTECTION)	

MECHANICAL:

SIZE:	1.57in Square
HEIGHT:	0.38 in. [9.7mm]
WEIGHT:	1.5 oz. (42.5 g)
FINISH:	SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5441
COLOR:	GLOSS WHITE #17925 PER FED-STD-595B LUSTERLESS GRAY #36320 PER FED-STD-595B OLIVE DRAB GREEN #34031 PER FED-STD-595B LUSTERLESS BLACK #37038 PER FED-STD-595B
MATERIAL:	6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, AND SKYDROL RESISTANCE, FIRE RETARDANT
CONNECTOR:	FEMALE SMA CONNECTOR WITH 36" CABLE (OPTIONAL: MCX, MMCX, TNC, N, OR OTHER CONNECTOR)

ENVIRONMENTAL:

TEMPERATURE:	-67 °F TO +185 °F [-55 °C TO +85 °C]
ALTITUDE:	70,000 ft.
VIBRATION:	> 30 G's
LEAKAGE:	HERMETICALLY SEAL

FEDERAL & MILITARY SPECIFICATIONS:

DESIGN TO: FAA TSO-C144, DO-160D, DO-228, MIL-C-5541,
MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

QUANTITY	DESCRIPTION	PART NO.	SPECIFICATION	MATERIAL	FINISH	ITEM NO.
-	ADHESIVE GASKET	12345G-3M-1.2G				5
-						3
-2						1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS: 008 .015 0008 .005 DECIMALS: 008 .015 0008 .005 ANGLES: ± 1°	DRIVER	CHECKED	DESIGNED	APPROVED	S. HUYTH	DATE: 27-03	SCALE: 1/1	SHEET: 1 OF 1
REWORK ALL SURFACES BEFORE INTERNAL EDGES .005 TO .015 SCREW HEADS FOR MIL-8-8879 MIL-8-8879 IN A COMP. Q. 27-006 MACHINED SURFACES 12/1	DO NOT SCALE DRAWING							

ANTCOM CORP.

1.5" SQ. FLAT MOUNT
IRIDIUM ANTENNA
(With 36" CABLE)

REV	DATE	DESCRIPTION	BY	CHKD
D	30VE1	S1.5IR16RR-P-36NS-1	A	

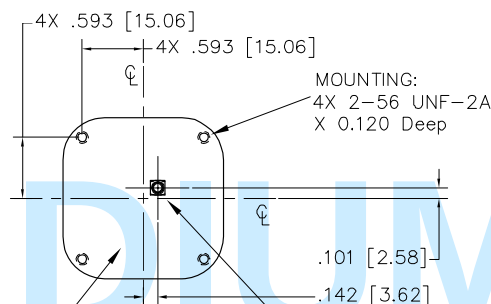
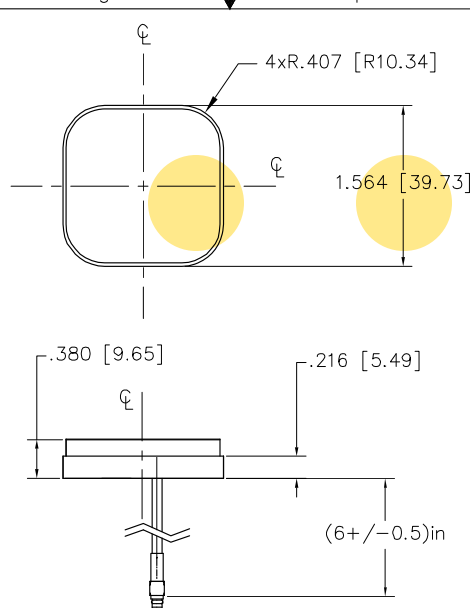
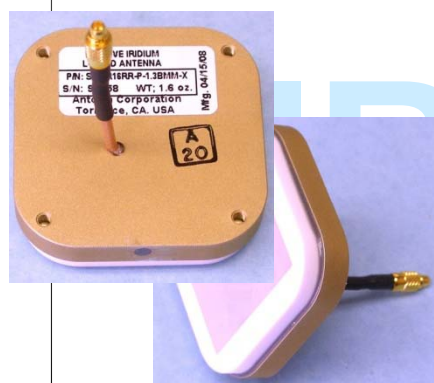
2. MOUNTING SURFACES ARE SUPPLIED BY ANTCOM CORPORATION

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:



ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501 . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . <http://www.antcom.com>



**OPTIONAL MOUNTING:
2-56 SCREWS, ADHESIVE GASKET,
HYSOL OR RTV**

MMCX CONNECTOR
(PIN, SMA, TNC, N , OTHER CONNECTOR,
OR CABLE IS OPTIONAL)

SIZE	FREQ. BAND	POLARIZATION	LNA*	FILTER
1.2" SQ.	1625-1700MHz	LL: TX: LHCP, RX: LHCP	A1: WITH+23dB LNA	
1.5, 1.5" SQ.	25-2493MHz	LR: TX: LHCP, RX: RHCP	A2: WITH+43dB LNA	
2.6" DIA.	16-1616MHz	RL: TX: RHCP, RX: LHCP	P: WITHOUTLNA	
3.3" DIA.		RR: TX: RHCP, RX: RHCP		
4. MINI ARINC				

P/N: S1.5|R16RR-P-6BMM-3

CABLE LENGTH	CONNECTOR	COLOR
X: NO CABLE	S: SMA; P: PINS; M: MCX	-1: GLOSSWHITE#17925PER FED-STD-595B
M: WITH MAG. MOUNT	MM: MMX; RMM: R-MMX	-2: LUSTERLESSGRAY#36320PER FED-STD-595B
#: CABLE LENGTH(IN)	N, NB, N-Bulkhead	-3: OLIVEDRAB GREEN#34031PER FED-STD-595B
R: RIGHT ANGLE(CON)	T, TB: TNC, TNC-Bulkhead	-4: LUSTERLESSBLACK#37038PER FED-STD-595B

SPECIFICATIONS

FREQUENCY:	(1610.0 - 1626.5) MHz		SEE PART NO BELOW
RADIATION PATTERN:	HEMISPHERICAL		
POLARIZATION:	RHCP		
VSWR:	< 1.5:1		
GAIN (dB):	4 ft G.P.	2.6 in G.P.	
@ 90° (Zenith):	+4.9	+4.4	
@ 10° Elevation (Ave):	-1.0	-2.6	
@ 20° Elevation (Ave):	+1.5	-1.0	
@ 30° Elevation (Ave):	+2.4	+0.4	
@ 45° Elevation (Ave):	+3.3	+2.5	
@ 70° Elevation (Ave):	+4.7	+4.0	
BEAM WIDTH (3dB):	129 °	+106 °	
AXIAL RATIO @ Zenith:	2.0 dB		
IMPEDANCE:	50 Ohms		
POWER HANDLING:	200 Watt		
DC GROUNDING	YES (LIGHTNING PROTECTION)		

MECHANICAL:

SIZE:	1.57in Square HEIGHT= 0.38 in. [9.7mm]
WEIGHT:	1.5 oz. (42.5 g)
FINISH:	SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5441
COLOR:	GLOSS WHITE #17925 PER FED-STD-595B LUSTERLESS GRAY #36320 PER FED-STD-595B OLIVE DRAB GREEN #34031 PER FED-STD-595B LUSTERLESS BLACK #37038 PER FED-STD-595B
MATERIAL:	6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, AND SKYDROL RESISTANCE, FIRE RETARDANT
CONNECTOR:	MMCX CONNECTOR (SMA, TNC, N, OTHER CONNECTOR, OR CABLE IS OPTIONAL)

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]
 ALTITUDE: 70,000 ft.
 VIBRATION: > 30 G's
 LEAKAGE: HERMETICALLY SEAL

FEDERAL & MILITARY SPECIFICATIONS:

DESIGN TO: FAA TSO-C144, DO-160D, D0-228, MIL-C-5541,
MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

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	-	ADHESIVE GASKET	12345G-3M-1.2G	-	-	-	
				-	-	-	
				-	-	-	
-2	-1	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	1
				PARTS LIST			

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:

FRACTIONS	DECIMALS	ANGLE
$\pm 1/64$	.0015 $\pm$.020	$\pm 1^\circ$
	.0015 $\pm$.015	

TOLERANCE 5YM PER ANSI Y14.5
REMOVE ALL BURRS
BREAK EXTERNAL EDGES .005 TO .010
DILUTE 5 .005 TO 5 .010

FILETS R .006 TO R .030
SCREW THREADS PER MIL-S-8879
DIA'S ON A COMMON ϕ .006
MACHINED SURFACES 125/

5B	DO NOT SCALE DRAWING
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TD	
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ES	
	DRAWN

5	CHECKED
	ENGINEER

APPROVED S. HUYNH
Aug-27-03

CAD FILE NO	

ANTCOM CORP.

1.5" SQ. 6in MMCX CABLE IRIIDIUM ANTENNA	
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SIZE	CAGE NO	DRAWING NO	REV
D	3CVE1	S1.5IR16RR-P-6BMM-3	A

SCALE 1/1	SHEET 1 OF 1
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2. MOUNTING SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:



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1

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

SPECIFICATIONS

ELECTRICAL:

	(1610.0 - 1626.5) MHz	
FREQUENCY:		
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	RHCP	
VSWR:	< 1.5:1	
GAIN (dB):	4 ft G.P.	2.6 in G.P.
@ 90° (Zenith):	+4.9	+4.4
@ 10° Elevation (Ave):	-1.0	-2.6
@ 20° Elevation (Ave):	+1.5	-1.0
@ 30° Elevation (Ave):	+2.4	+0.4
@ 45° Elevation (Ave):	+3.3	+2.5
@ 70° Elevation (Ave):	+4.7	+4.0
BEAM WIDTH (3dB):	129°	+106°
AXIAL RATIO @ Zenith:	2.0 dB	
IMPEDANCE:	50 Ohms	
POWER HANDLING:	200 Watt	
DC GROUNDING:	YES (LIGHTNING PROTECTION)	

SEE PART NO. BELOW

MECHANICAL:

SIZE: 1.57in Square
HEIGHT= 0.38 in, [9.7mm]

WEIGHT: 1.5 oz. (42.5 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDITE PER MIL-C-5441

COLOR: GLOSS WHITE #17925 PER FED-STD-595B
LUSTERLESS GRAY #36320 PER FED-STD-595B
OLIVE DRAB GREEN #34031 PER FED-STD-595B
LUSTERLESS BLACK #37038 PER FED-STD-595B

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, AND SKYDROL RESISTANCE, FIRE RETARDANT

CONNECTOR: FEMALE SMA CONNECTOR
(TNC, N, OTHER CONNECTOR, OR CABLE IS OPTIONAL)

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]

ALTITUDE: 70,000 ft.

VIBRATION: > 30 G's

LEAKAGE: HERMETICALLY SEAL

FEDERAL & MILITARY SPECIFICATIONS:

DESIGN TO: FAA TSO-C144, DO-160D, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

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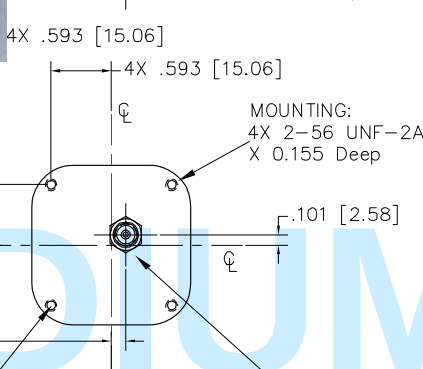
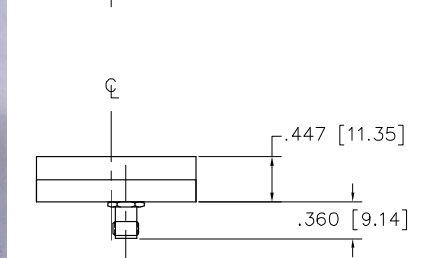
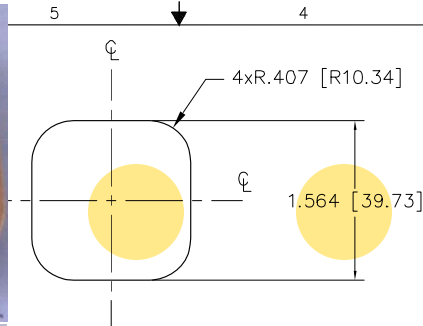
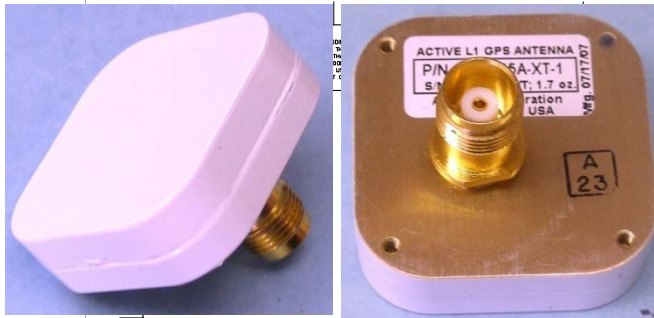
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IRIDIUM Antenna, P/N: S1.5IR16RR-P-XS-X Rev B:

1.5" Square, Back Mount Configurations



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OPTIONAL MOUNTING:
2-56 SCREWS, ADHESIVE GASKET,
HYSOL, OR RTV

FEMALE SMA CONNECTOR
(PIN, TNC, N, OTHER CONNECTOR,
OR CABLE IS OPTIONAL)

SIZE	FREQ. BAND	POLARIZATION:	LNA:	FILTER
1.2" SQ.	1625-Tx/Rx	LL: TX: LHCP, RX: LHCP	A1: WITH+23dB LNA	
1.5" 1.5" SQ.	25: 2493MHz	LR: TX: LHCP, RX: RHCP	A2: WITH+43dB LNA	
2.2" DIA.	16: 1616MHz	RL: TX: RHCP, RX: LHCP	P: WITHOUT LNA	
3.3" DIA.		RR: TX: RHCP, RX: RHCP		
4: MINIARINC				

P/N: S1.5IR16RR-P-XS-X

CABLE LENGTH	CONNECTOR	COLOR
X: NO CABLE	S: SMA; P: PINS	-1: GLOSSWHITE#17925PERFED-STD-595B
M: WITH MAG. MOUNT	M: MCX; MM: MMCX	-2: LUSTERLESSGRAY#36320PER FED-STD-595B
I: CABLE LENGTH (IN)	N: NB; N: N-Bulkhead	-3: OLIVE DRAB GREEN#34031PER FED-STD-595B
R: RIGHT ANGLE CON.	T: TB; TNC; TNC-Bulkhead	-4: LUSTERLESSBLACK#37038PER FED-STD-595B

SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	(1610.0 - 1626.5) MHz	SEE PART NO. BELOW
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	RHCP	
VSWR:	< 1.5:1	
GAIN (dB):	4 ft G.P.	2.6 in G.P.
@ 90° (Zenith):	+4.9	+4.4
@ 10° Elevation (Ave):	-1.0	-2.6
@ 20° Elevation (Ave):	+1.5	-1.0
@ 30° Elevation (Ave):	+2.4	+0.4
@ 45° Elevation (Ave):	+3.3	+2.5
@ 70° Elevation (Ave):	+4.7	+4.0
BEAM WIDTH(3dB):	129°	+106°
AXIAL RATIO @ Zenith:	2.0 dB	
IMPEDANCE:	50 Ohms	
POWER HANDLING:	200 Watt	
DC GROUNDING:	YES (LIGHTNING PROTECTION)	

MECHANICAL:

SIZE:	1.57in Square
HEIGHT:	0.447 in. [11.35 mm]
WEIGHT:	1.5 oz. (42.5 g)
FINISH:	SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5441
COLOR:	GLOSS WHITE #17925 PER FED-STD-595B LUSTERLESS GRAY #36320 PER FED-STD-595B OLIVE DRAB GREEN #34031 PER FED-STD-595B LUSTERLESS BLACK #37038 PER FED-STD-595B
MATERIAL:	6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, AND SKYDROL RESISTANCE, FIRE RETARDANT
CONNECTOR:	FEMALE SMA CONNECTOR (TNC, N, OTHER CONNECTOR, OR CABLE IS OPTIONAL)

ENVIRONMENTAL:

TEMPERATURE:	-67 °F TO +185 °F [-55 °C TO +85 °C]
ALTITUDE:	70,000 ft
VIBRATION:	> 30 G's
LEAKAGE:	HERMETICALLY SEAL

FEDERAL & MILITARY SPECIFICATIONS:

DESIGN TO: FAA TSO-C144, DO-160D, DO-228, MIL-C-5541,
MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

QUANTITY	RECD	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO
-	-	-	-	-	-	-	5
-	-	ADHESIVE GASKET	12345G-3M-1.2G	-	-	-	3
-2	-1	-	-	-	-	-	1

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
FRACTIONS & DECIMALS ANGLES
± 1/64 .012 .015 ± 1°
TOLERANCE 5M PER ANSI Y14.5
REWORK ALL SURFACES
BREAK EXTERNAL EDGES .005 TO .015
FILERS & .005 TO .015
SCREW THREADS PER MIL-C-8879
DAYS ON A COMMON 5.29.000
MACHINED SURFACES 25°
DO NOT SCALE DRAWING

ANTCOM CORP.

1.5" SQ.
IRIDIUM ANTENNA

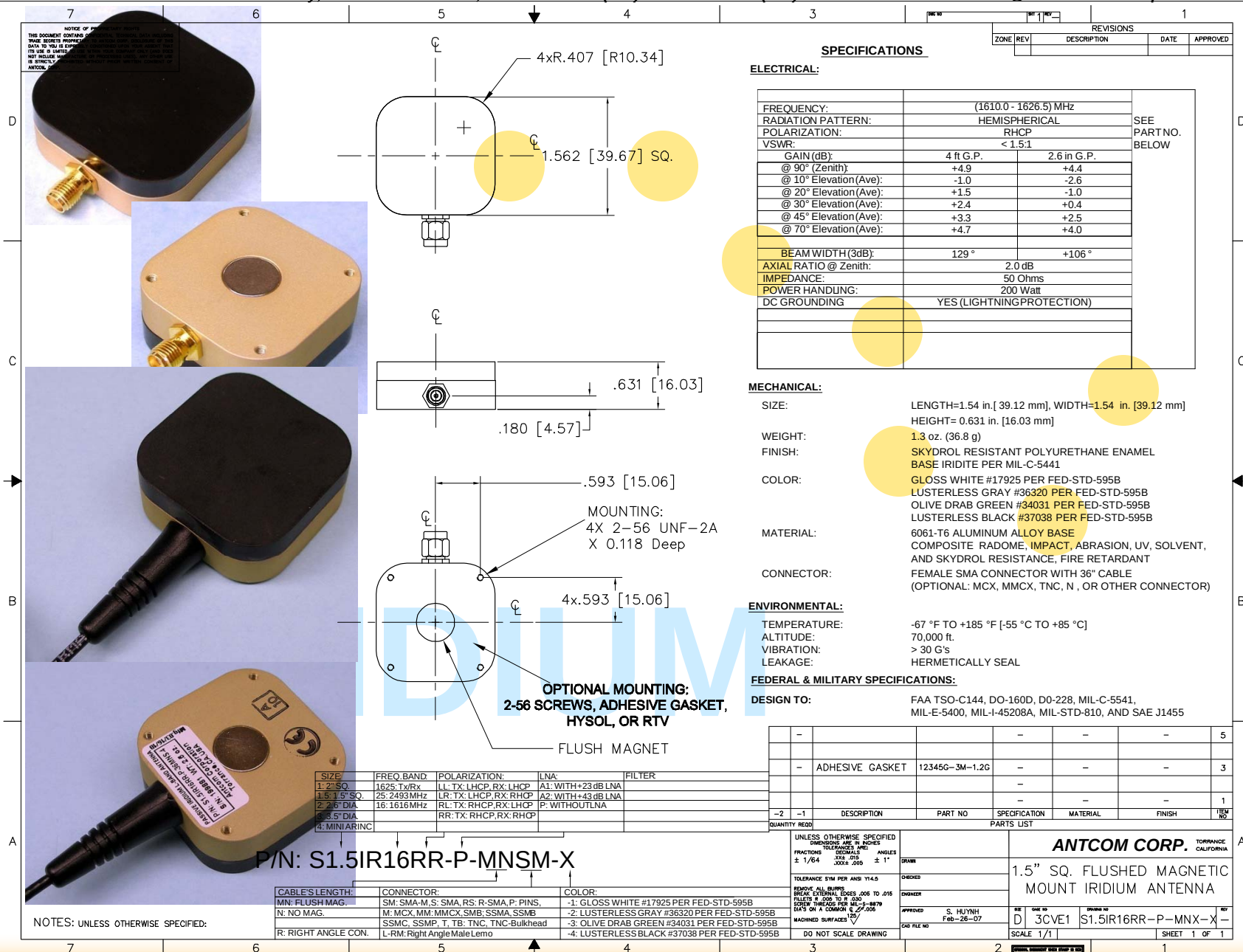
REV	DATE	DESCRIPTION	BY
D	3CVE1	S1.5IR16RR-P-XS-X	B

2. MOUNTING SCREWS ARE SUPPLIED BY ANTCOM CORPORATION
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
- NOTES: UNLESS OTHERWISE SPECIFIED:

IRIDIUM Antenna, P/N: S1.5IR16RR-P-MNSM-X: 1.5" Square, Flushed Magnetic/Back Mount Configurations



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IRIDIUM Approved Antennas, P/N: S4IR16RR-P-XX-X: (3.4" x 2.2") Mini Arinc Configurations



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P/N: S4IR16RR-P-XT-2 (Gray)



P/N: S4IR16RR-P-XT-3 (Green)



P/N: S4IR16RR-P-XT-4 (Black)



P/N: S4IR16RR-P-XT-1 (White)

P/N: S4IR16RR-P-XS-1 (SMA)



P/N: S4IR16RR-P-XT-X (TNC)

P/N: S4IR16RR-P-XN-X (N)

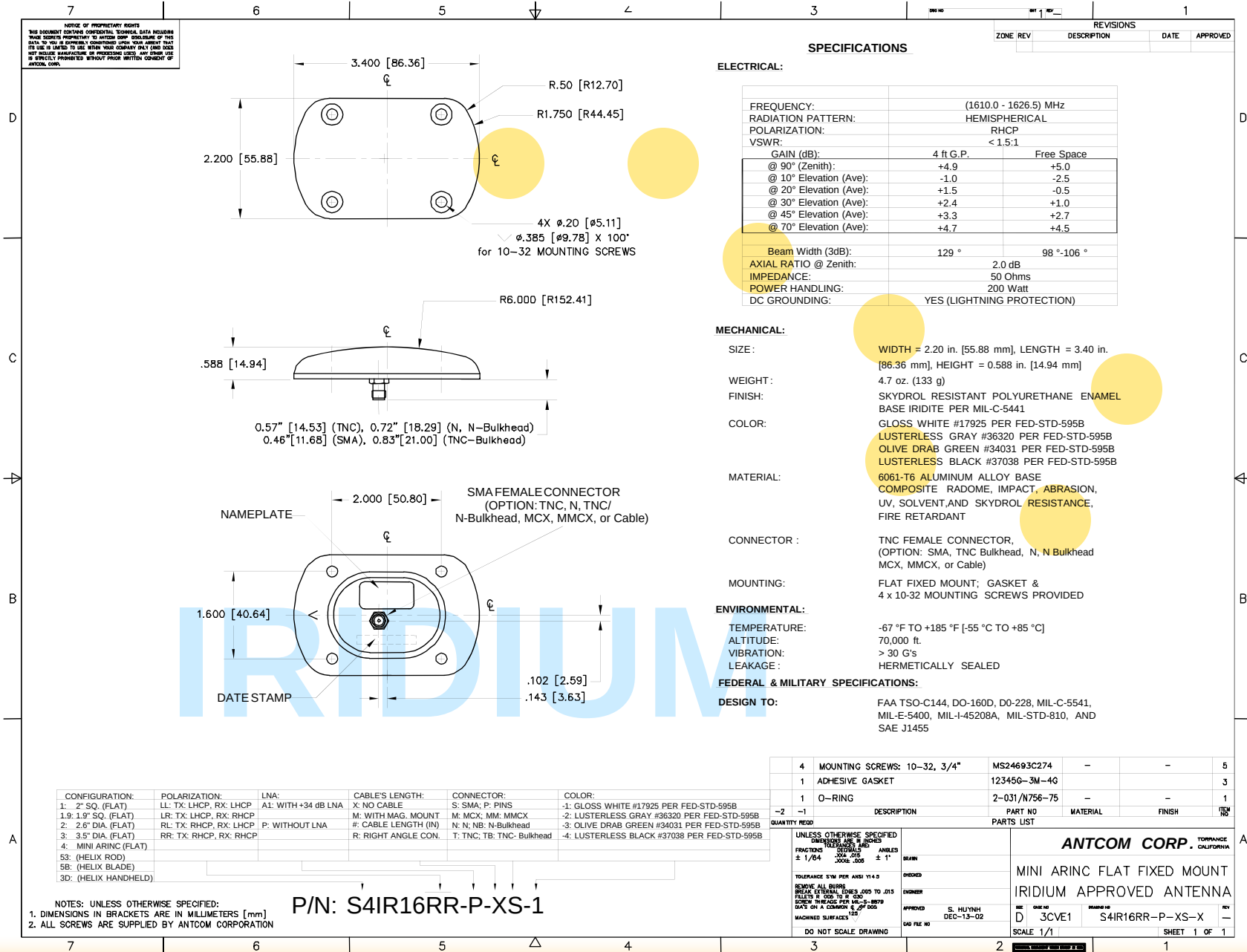
P/N: S4IR16RR-P-XS-X (SMA)

Hermetically Sealed, Designed for Harsh Environment Applications. Connector is Available in SMA, MCX, MMCX, TNC, TNC-B, N, N-Bulkhead (See Drawing)

IRIDIUM Approved Antennas, P/N: S4IR16RR-P-XX-X: (3.4" x 2.2") Mini Arinc Configurations

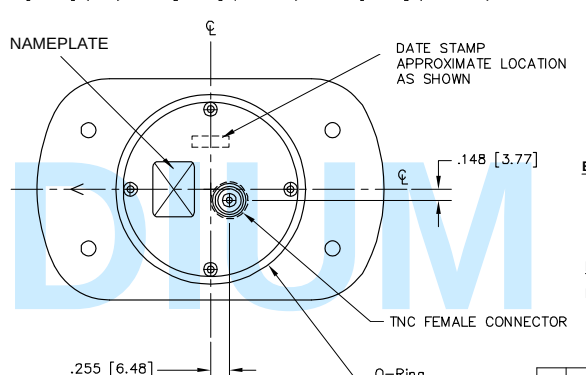
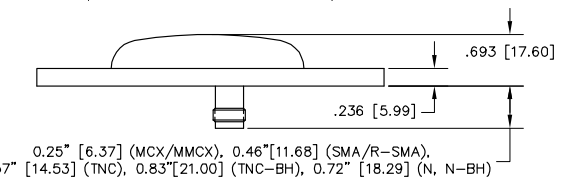
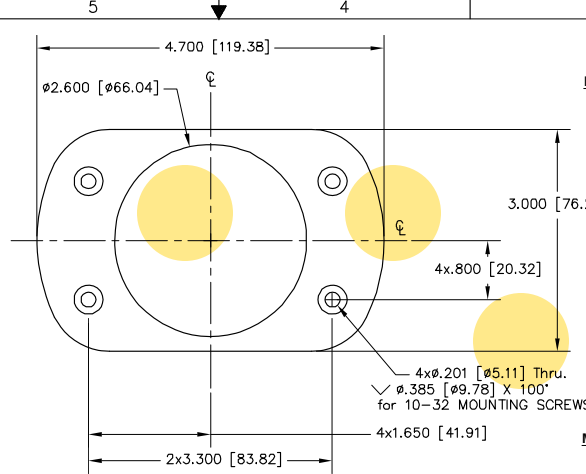


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IRIDIUM/Inmarsat/GPS Antenna, P/N: S42IR16RR-P-XT-X: (4.7" x 3.0" x 0.69") Flat 743 Arinc Configuration

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REVISIONS		
ZONE	REV	DESCRIPTION
		DATE
		APPROVED

SPECIFICATIONS		
ELECTRICAL:		
FREQUENCY:	(1610.0 - 1626.5) MHz	
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	RHCP	
VSWR:	< 1.5:1	
GAIN (dB):	4 ft G.P.	Free Space
@ 90° (Zenith):	+4.9	+5.7
@ 10° Elevation (Ave):	-1.0	-2.4
@ 20° Elevation (Ave):	+1.5	-0.1
@ 30° Elevation (Ave):	+2.4	+1.6
@ 45° Elevation (Ave):	+3.3	+3.0
@ 70° Elevation (Ave):	+4.7	+5.0
Beam Width (3dB):	129 °	98 °
AXIAL RATIO @ Zenith:	2.0 dB	
IMPEDANCE:	50 Ohms	
POWER HANDLING:	200 Watt	
DC GROUNDING:	YES (LIGHTNING PROTECTION)	

MECHANICAL:	
SIZE:	WIDTH: 3 in. [76.2 mm], LENGTH 4.7 in. [119.4 mm] HEIGHT: 0.69 in. [17.6 mm]
WEIGHT:	7.0 oz. (198 g)
FINISH:	SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5441
COLOR:	GLOSS WHITE #17925 PER FED-STD-595B LUSTERLESS GRAY #36320 PER FED-STD-595B OLIVE DRAB GREEN #34031 PER FED-STD-595B LUSTERLESS BLACK #37038 PER FED-STD-595B
MATERIAL:	6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, AND SKYDROL RESISTANCE, FIRE RETARDANT
CONNECTOR:	TNC BULKHEAD CONNECTOR, (OPTION: TNC, SMA, N, N Bulkhead, MCX, MMCX, or Cable)
MOUNTING:	FLAT FIXED MOUNT; GASKET & 4 x 10-32 MOUNTING SCREWS PROVIDED
ENVIRONMENTAL:	
TEMPERATURE:	-67 °F TO +185 °F [-55 °C TO +85 °C]
ALTITUDE:	70,000 ft.
VIBRATION:	> 30 G's
LEAKAGE:	HERMETICALLY SEALED
FEDERAL & MILITARY SPECIFICATIONS:	
DESIGN TO:	FAA TSO-C144, DO-160D, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

A

CONFIGURATION:	POLARIZATION:	LNA:	CABLE LENGTH:	CONNECTOR:	COLOR:
1: 2" SQ. (FLAT)	LL: TX: LHCP, RX: LHCP	A1: WITH +34dB LNA	X: Bottom Connector	S: SMA, P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.9: 1.9" SQ. (FLAT)	LR: TX: LHCP, RX: RHCP		MN: Flush MAG. MOUNT	M: MCX, MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA. (FLAT)	RL: TX: RHCP, RX: LHCP	P: WITHOUT LNA	N: No Magnet	N: N, NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
3: 3.5" DIA. (FLAT)	RR: TX: RHCP, RX: RHCP		M: Big Non-Flush Mag.	T: TNC; TB: TNC- Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARINC (FLAT)					
53: (HELIX ROD)					
5B: (HELIX BLADE)					
3D: (HELIX HANDHELD)					
42: 743 FOOT PRINT					

D/N: G40D10000 DXT 1

NOTES: UNLESS OTHERWISE SPECIFIED:
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
2. ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

P/N: S42IR16RR-P-XT-1

QUANTITY	DESCRIPTION	PART NO	MATERIAL	FINISH	ITEM NO
4	MOUNTING SCREWS: 10-32, 3/4"	MS24693C274	-	-	5
1	O-RING	2-036/N756-75	-	-	3
1			-	-	1

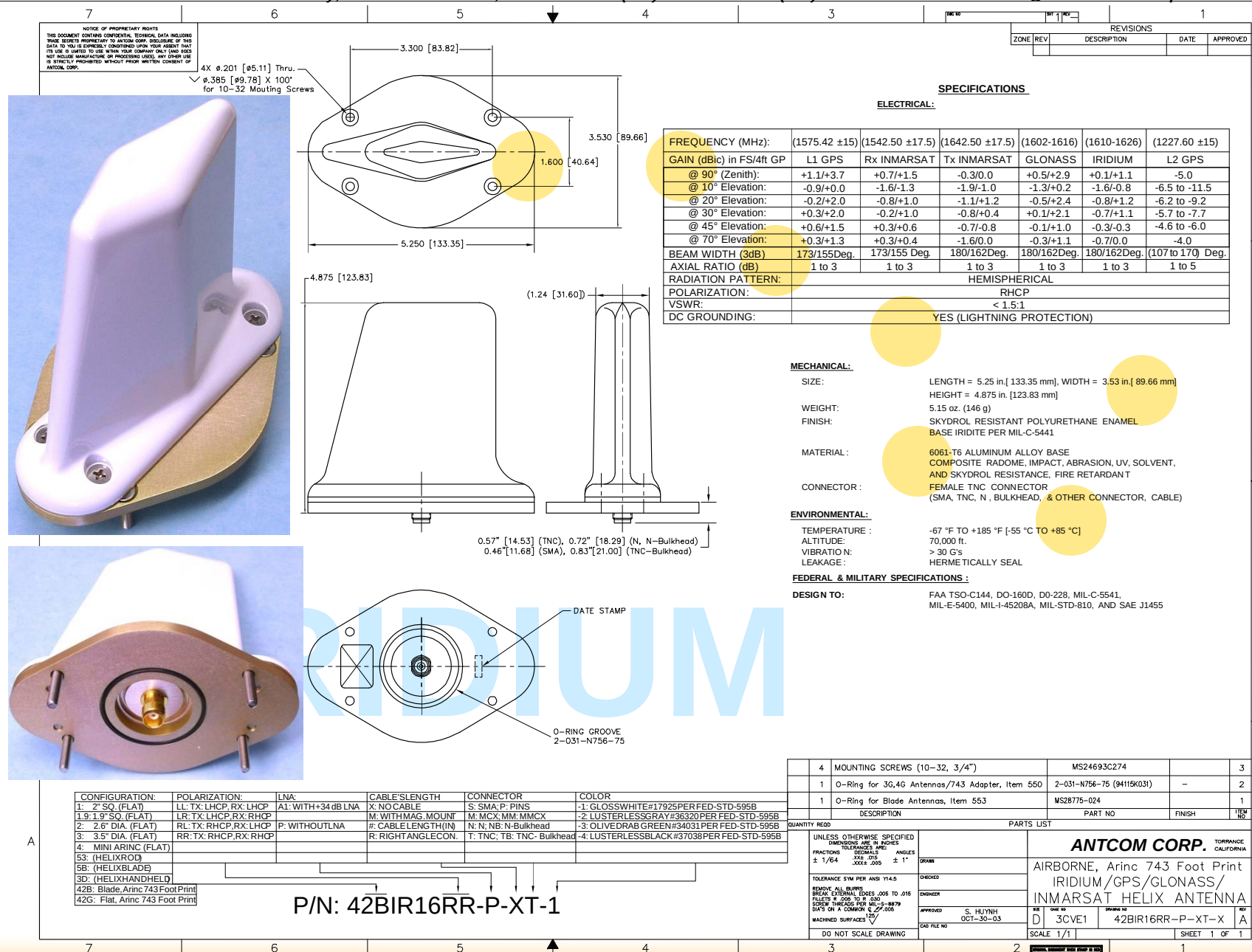
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	ANGLES
FRACTIONS: 008 .015 .008 .005	± 1°
TOLERANCE .010 PER ANSI Y14.5	
REWORK: ALL SURFACES	
BEING TYPICAL: .005 TO .015	
SCREW THREADS PER MIL-S-8879	
DATA ON A COMPASS: 0.25 .005	
MACHINED SURFACES: 12/	
DO NOT SCALE DRAWING	

ANTCOM CORP.	
743 ARINC FOOT PRINT	IRIDIUM ANTENNA
DESIGNED BY	ENGINEER
APPROVED	DATE
S. HUYNH	April-26-07
CAD FILE NO	
SCALE 1/1	SHEET 1 OF 1

IRIDIUM/Inmarsat/GPS Antennas, P/N: 42BIR16RR-P-XT-X: 4.8" Tall Blade 743 Arinc Configuration



ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501 . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . http://www.antcom.com



IRIDIUM/Inmarsat/GPS Antennas, P/N: S5BIR16RR-P-XX-X: 4.6" Tall Blade Configurations



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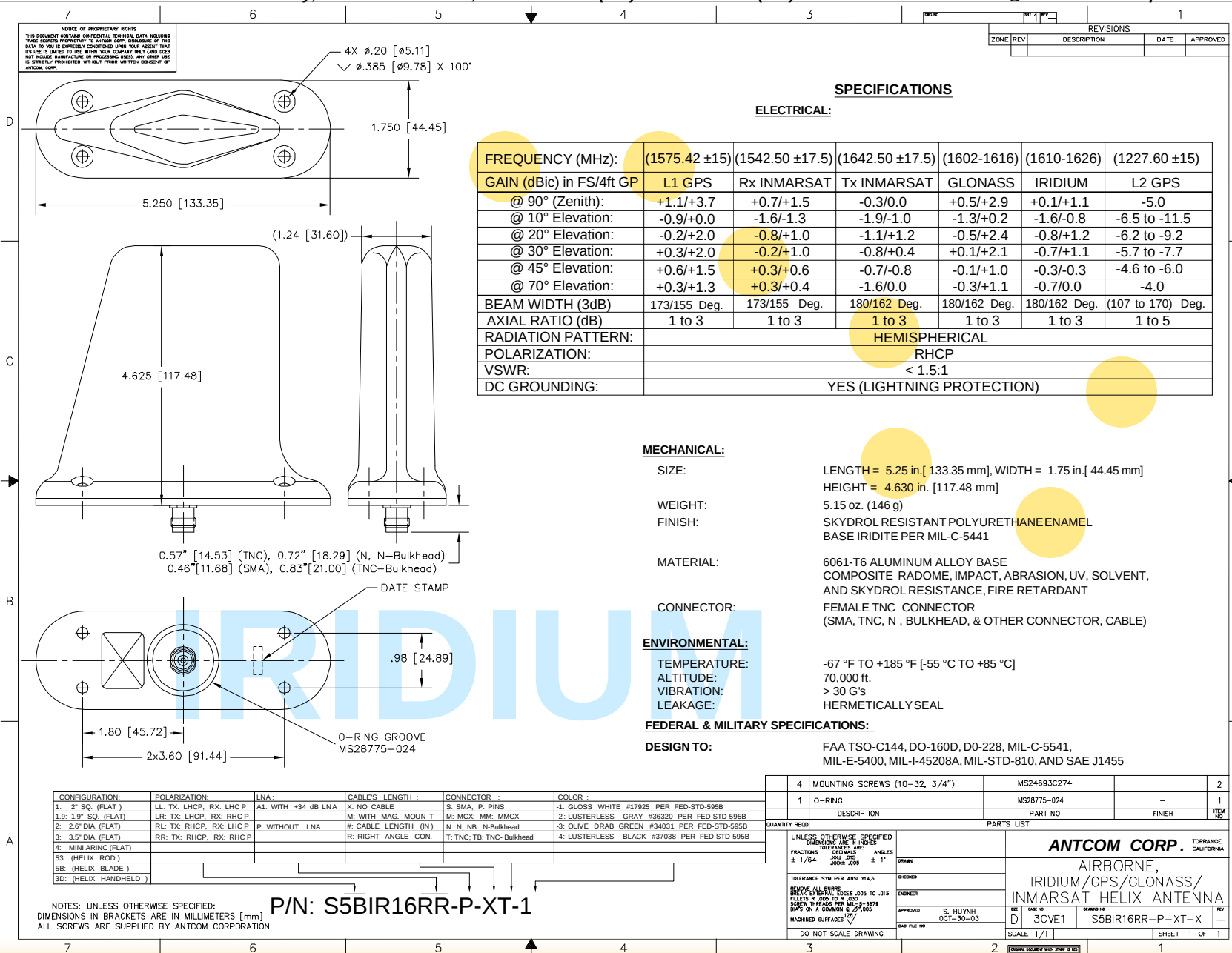
**Hermetically Sealed, Designed for
Harsh Environment Applications.**

**Connector is Available in SMA,
MCX, MMCX, TNC, TNC-B, N, or
N-Bulkhead (See Drawing)**

IRIDIUM/Inmarsat/GPS Antennas, P/N: S5BIR16RR-P-XX-X: 4.6" Tall Blade Configurations



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IRIDIUM/Inmarsat/GPS Antennas, P/N: 3D16RR-P-XXT-X
1" Diameter x 4.2" Tall, 1in Dia. Pipe Mount Configurations



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P/N: 3D16RR-P-6PT-4



P/N: 3D16RR-P-6PT-3



P/N: 3D16RR-P-6PT-1



P/N: 3D16RR-P-XPT-1



P/N: 3D16RR-P-XT-1

IRIDIUM/Inmarsat/GPS Antennas, P/N: 3D1216P-XX-X-X
1" Diameter x 4.2" Tall, Threaded Bottom Mount Configurations



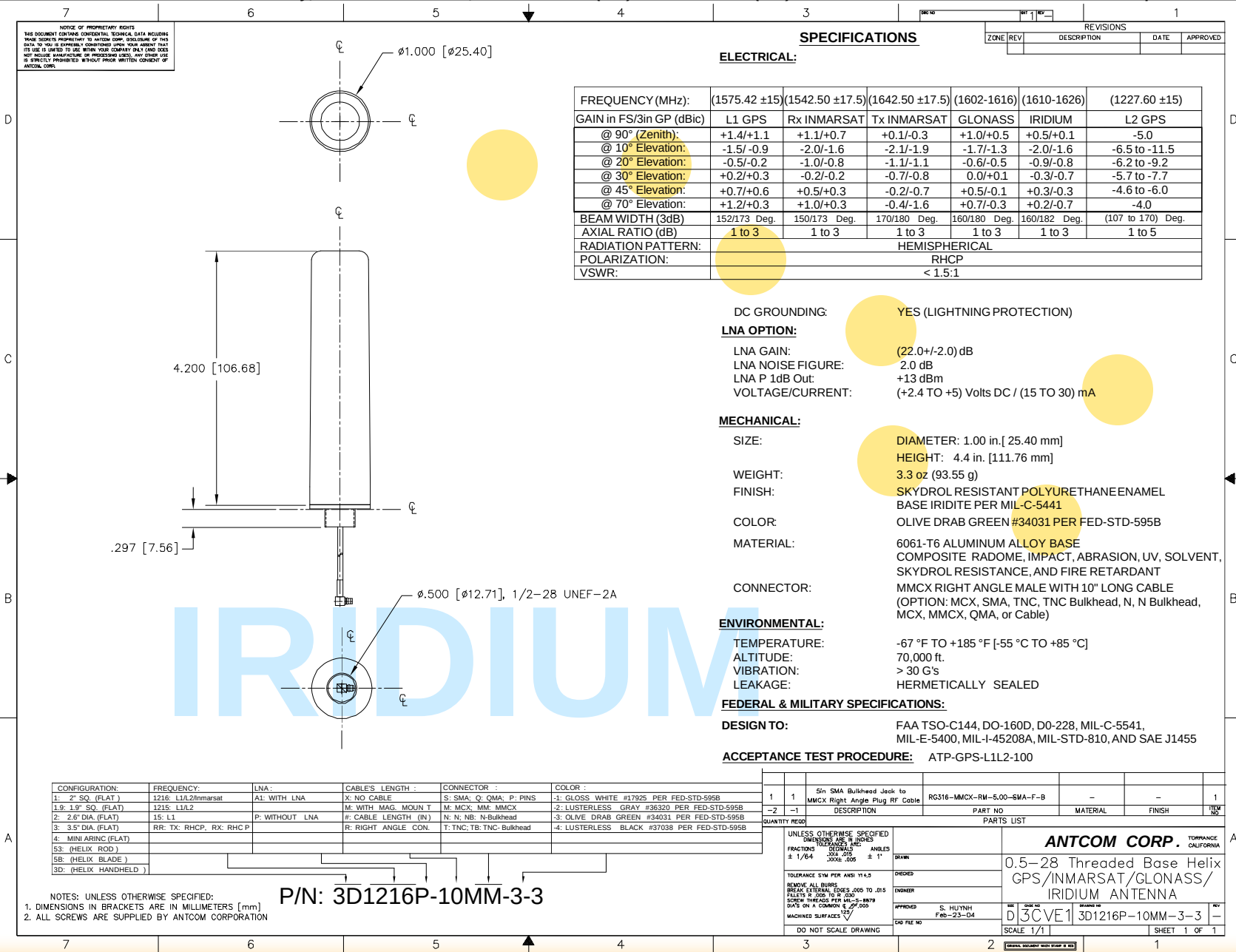
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IRIDIUM/Inmarsat/GPS Antennas, P/N: 3D1216P-10MM-X-3: 1" Diameter x 4.2" Tall, Threaded Bottom Mount Configuration



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IRIDIUM/Inmarsat/GPS Antennas, P/N: 3D1216P-4.5MM-3:
1" Diameter x 4.2" Tall, Swivel, Side Mount Configurations

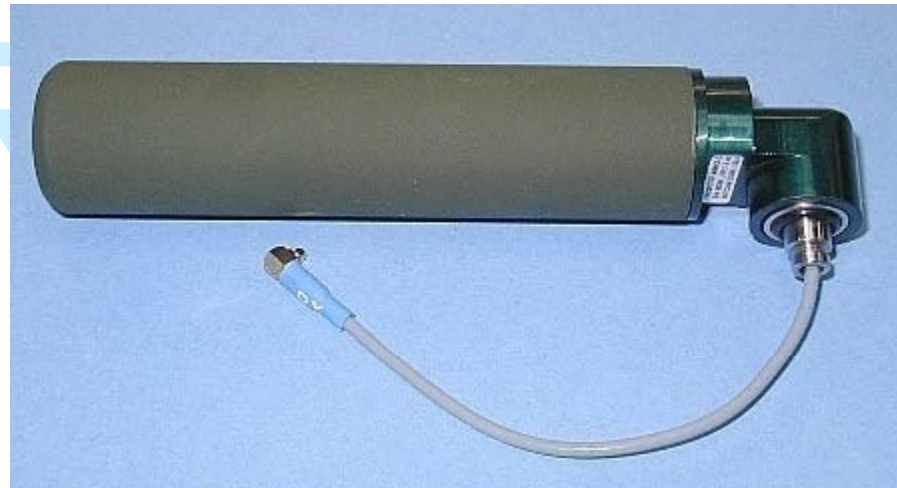


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**Hermetically Sealed,
Designed for Harsh
Environment
Applications.**

**Connector is Available
in SMA, MCX, MMCX,
TNC, TNC-B, N, or N-
Bulkhead (See Drawing)**

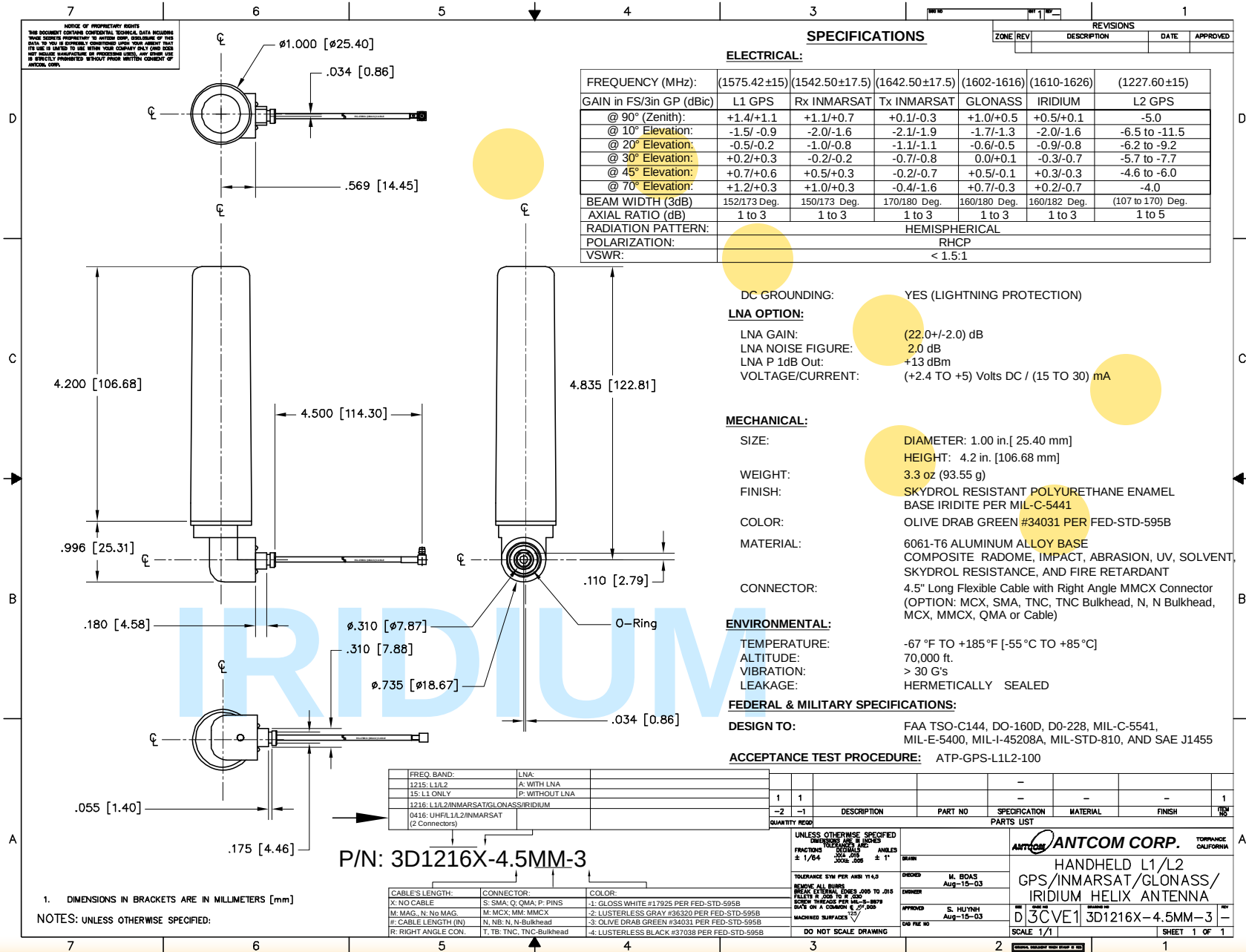


IRIDIUM/Inmarsat/GPS Antennas, P/N: 3D1216P-4.5MM-3:

1" Diameter x 4.2" Tall, Swivel, Side Mount Configurations



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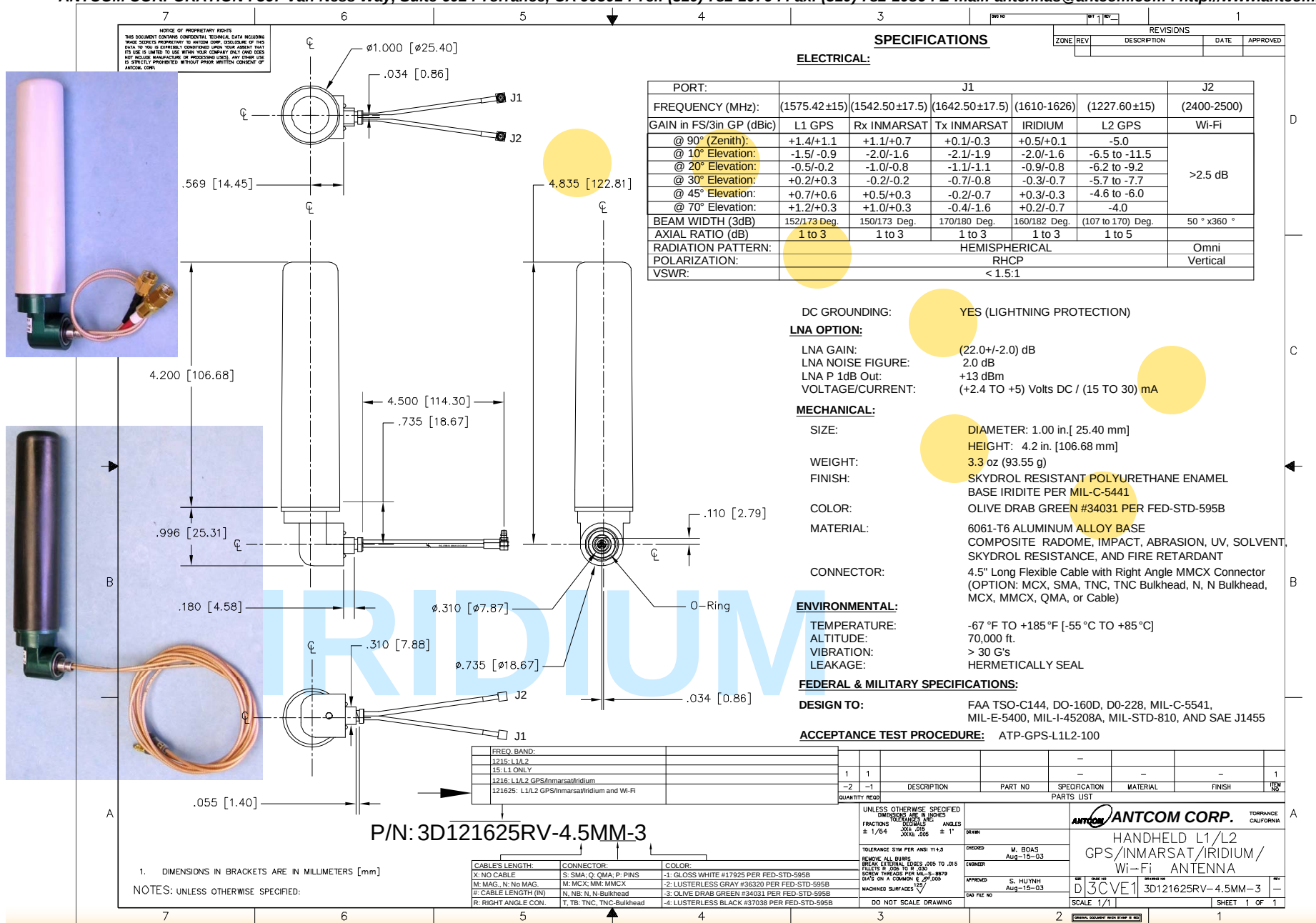




Iridium/L1 GPS & **Wi-Fi** Antenna, P/N: 3D1625RV-XX-X; Iridium/L1 GPS & **UHF** Antenna, P/N: 3D0916VR-XX-X,
L1/L2 GPS & **Wi-Fi** Antenna, P/N: 3D121525A-XX-X; L1/L2 GPS & **UHF** Antenna, P/N: 3D091215A-XX-X:
1" Diameter x 4.2" Tall, Swivel, Side Mount Configurations



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IRIDIUM/Inmarsat/GPS Antennas, P/N: 3D1216P-XS-X:
1" Diameter x 4.2" Tall, Swivel, Side Mount Configurations



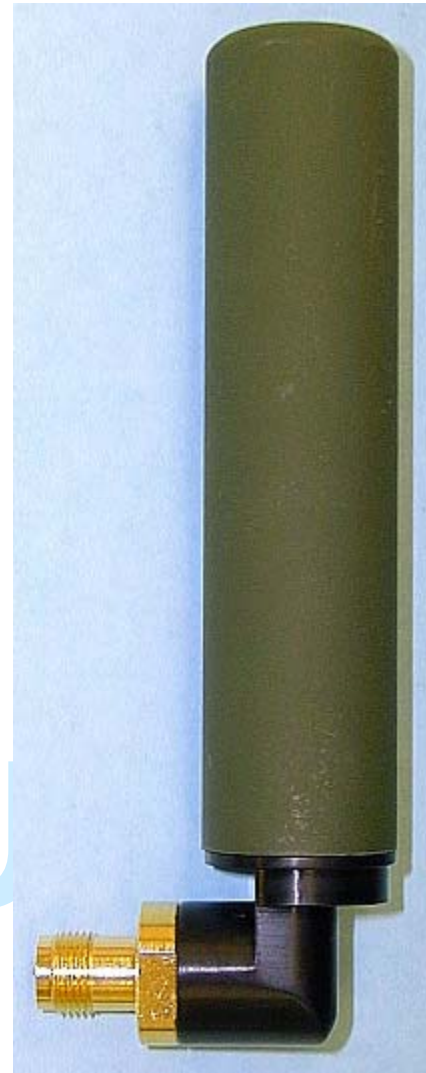
ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501 . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . <http://www.antcom.com>



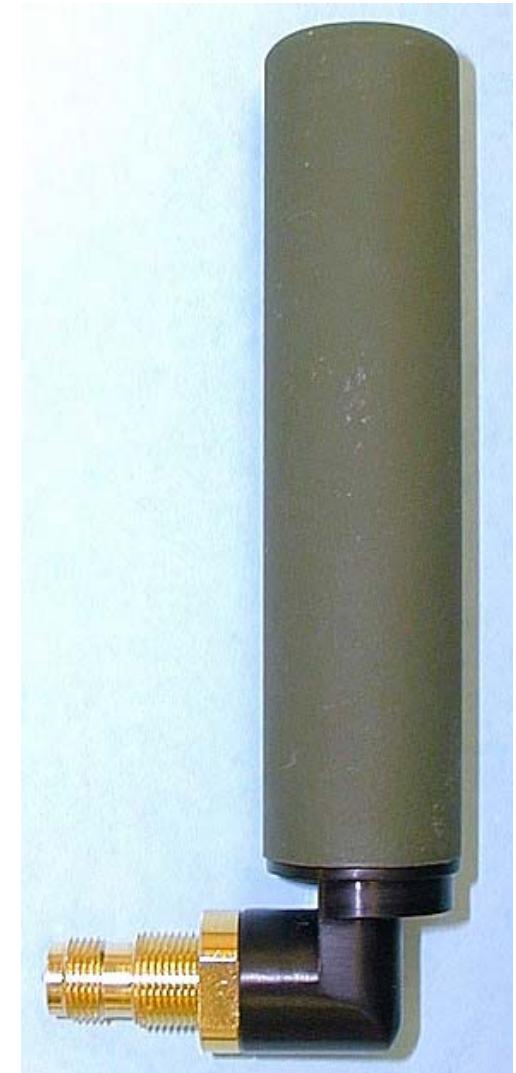
P/N: 3D1216P-XS-4,
Black, SMA



P/N: 3D1216P-XS-3,
Green, SMA



P/N: 3D1216P-XT-3,
Green, TNC

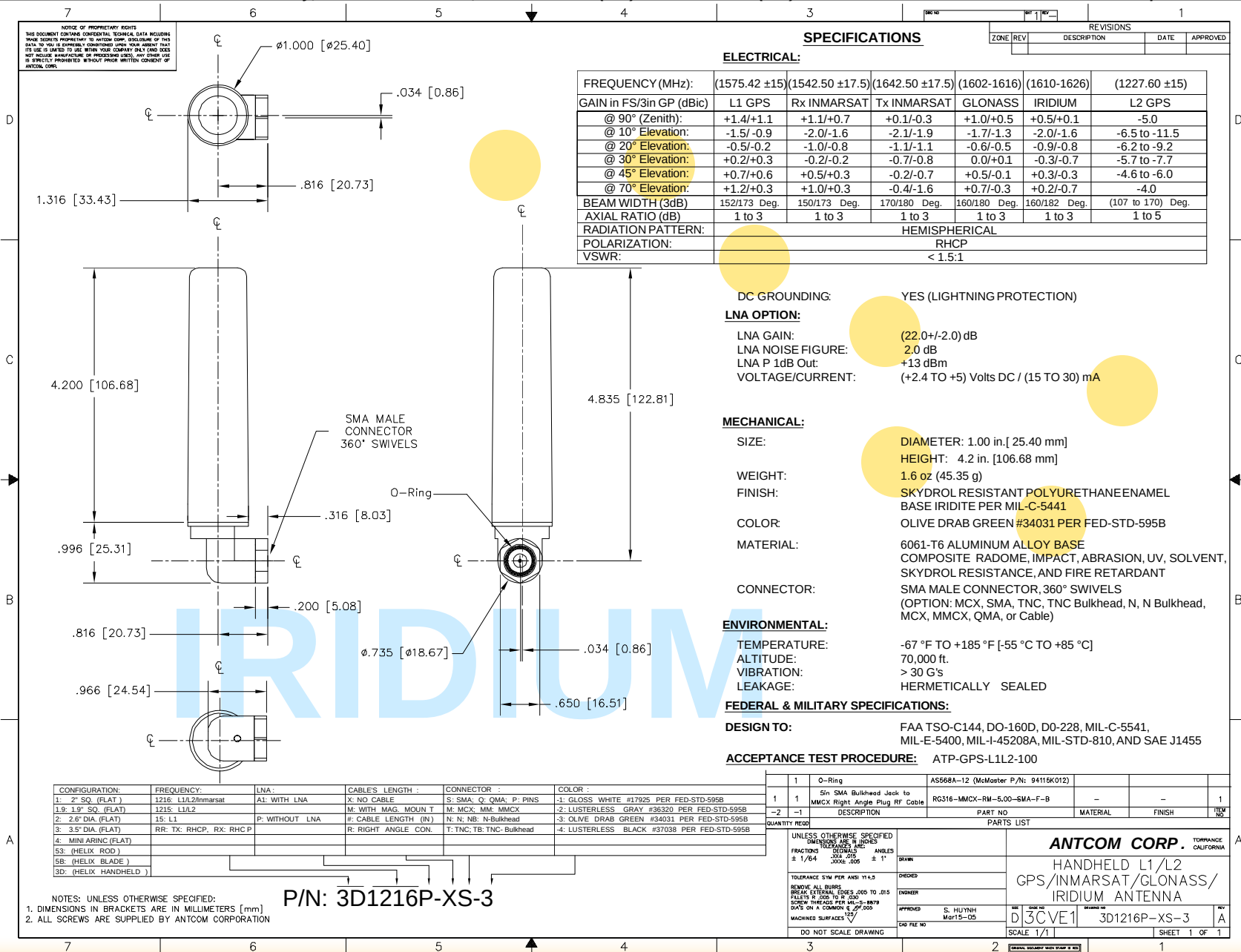


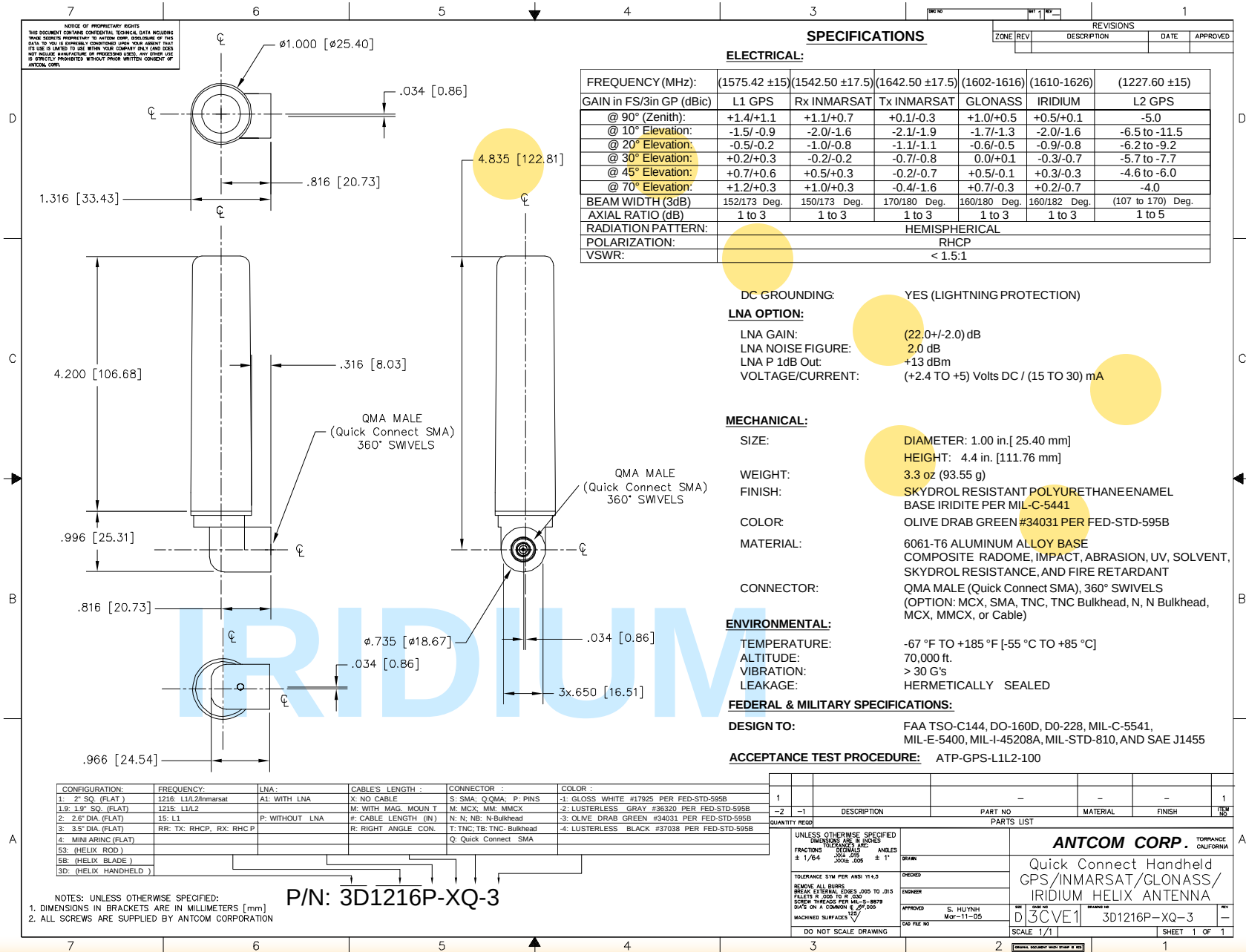
P/N: 3D1216P-XTB-3,
Green, TNC-B

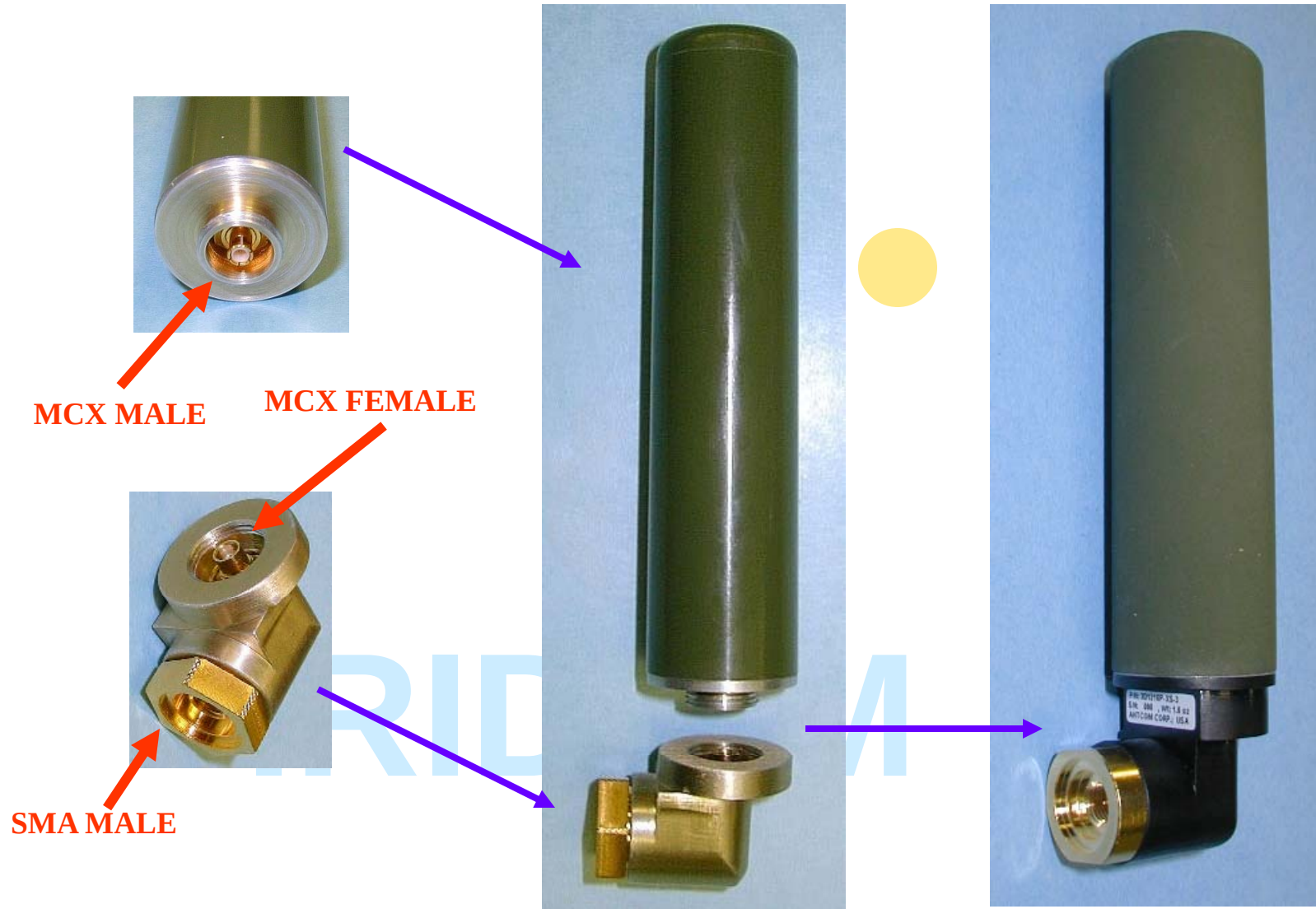
IRIDIUM/Inmarsat/GPS Antennas, P/N: 3D1216P-XS-X: 1" Diameter x 4.2" Tall, Swivel, Side Mount Configurations

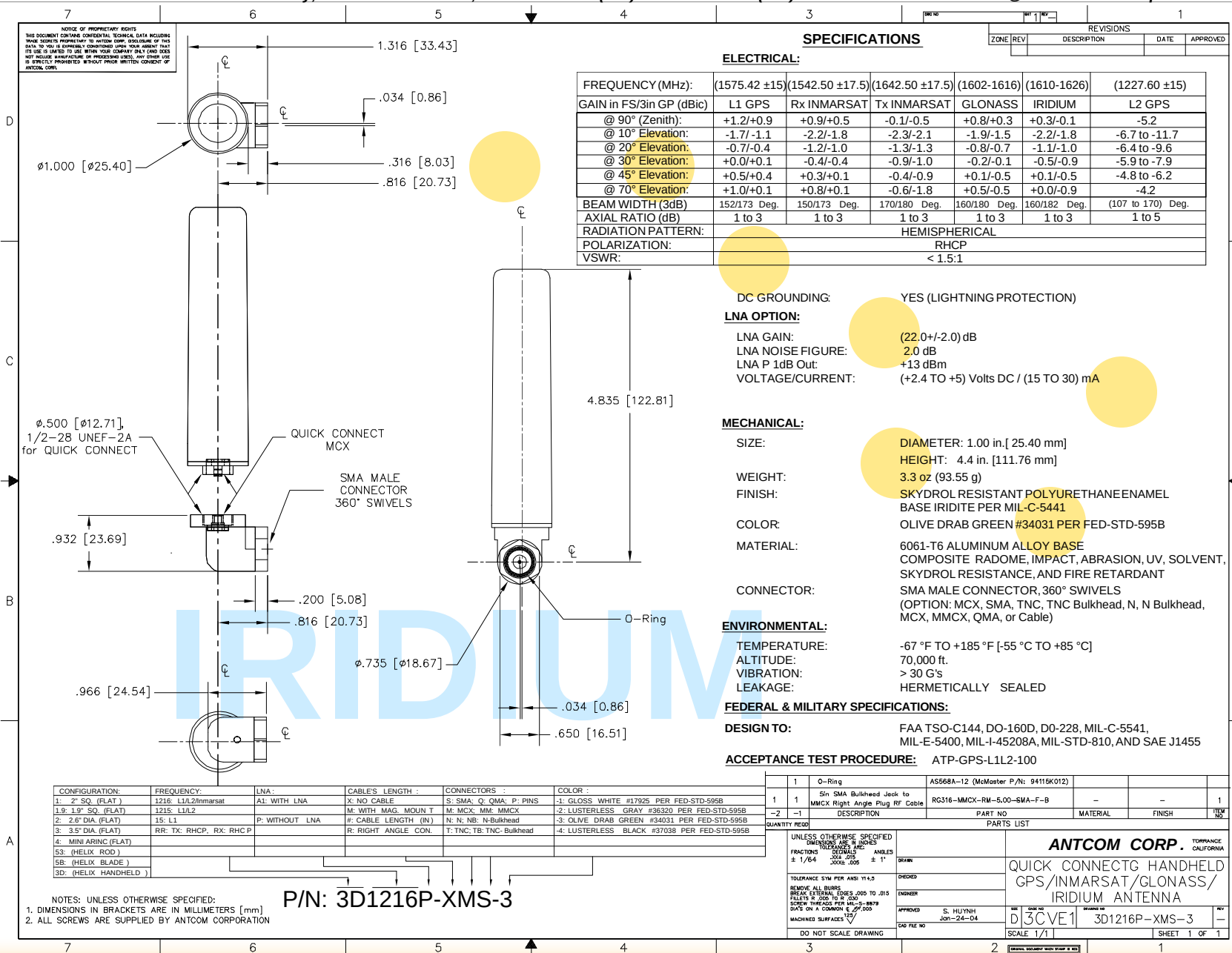


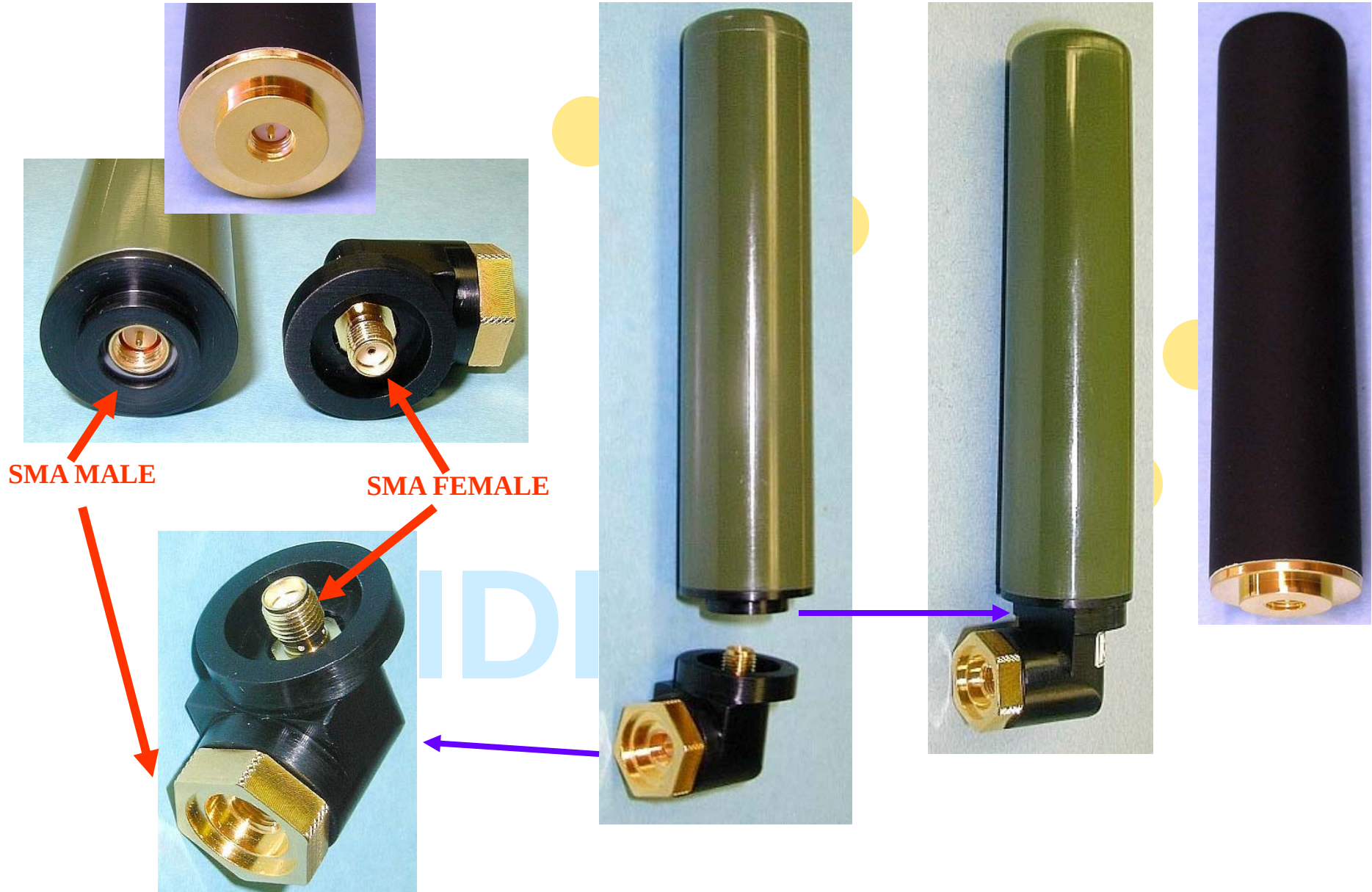
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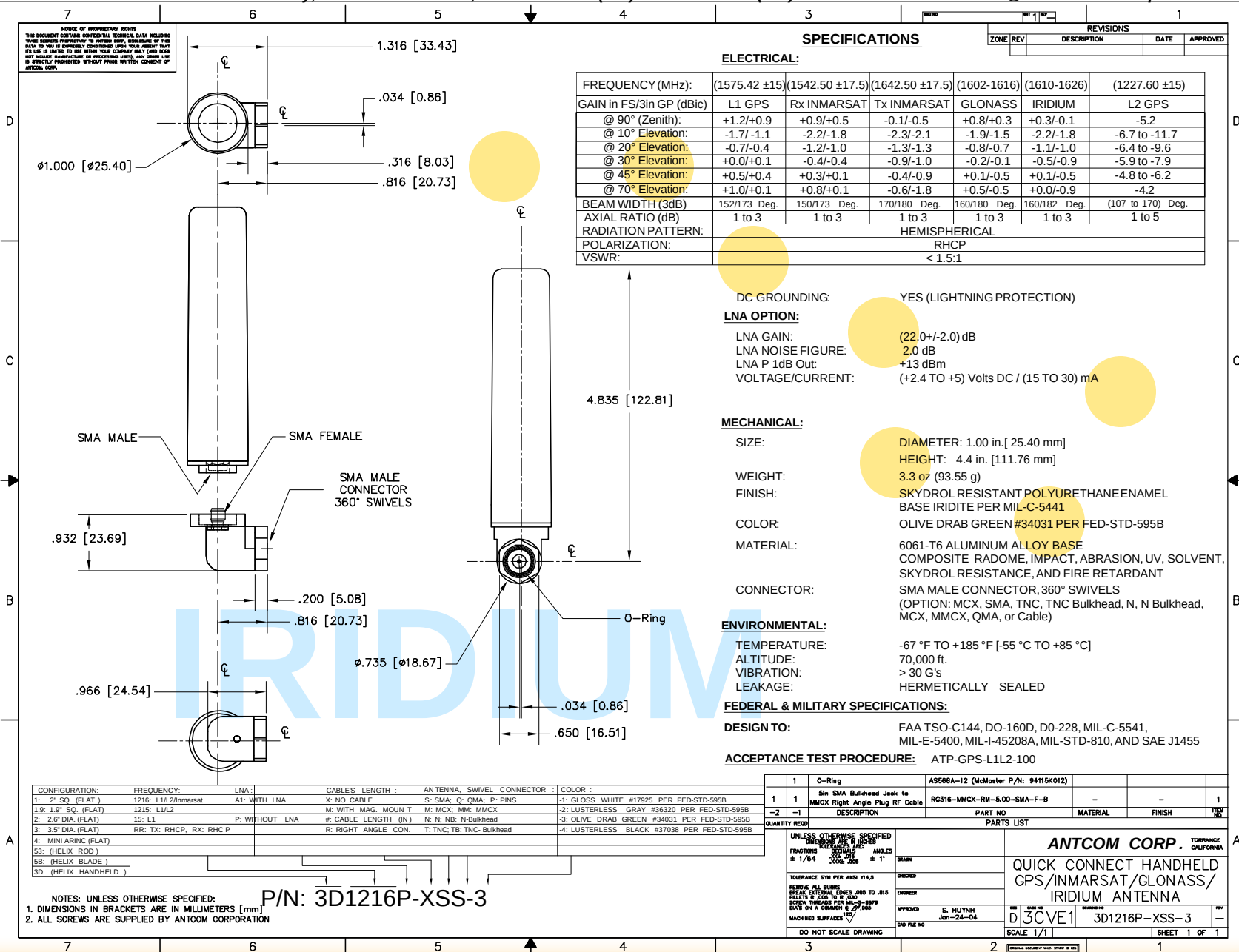








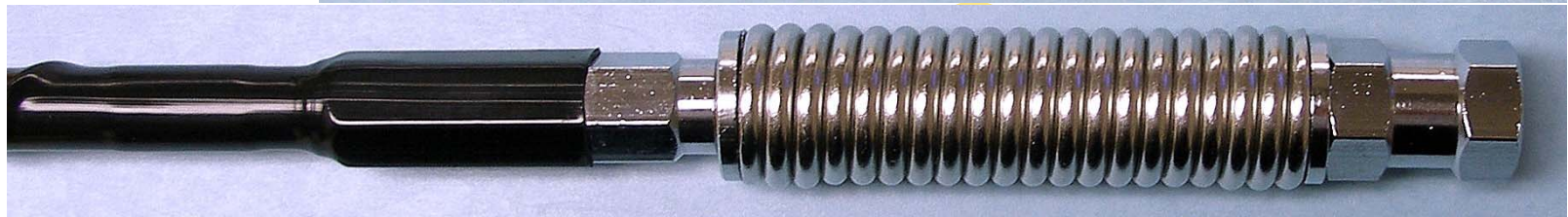
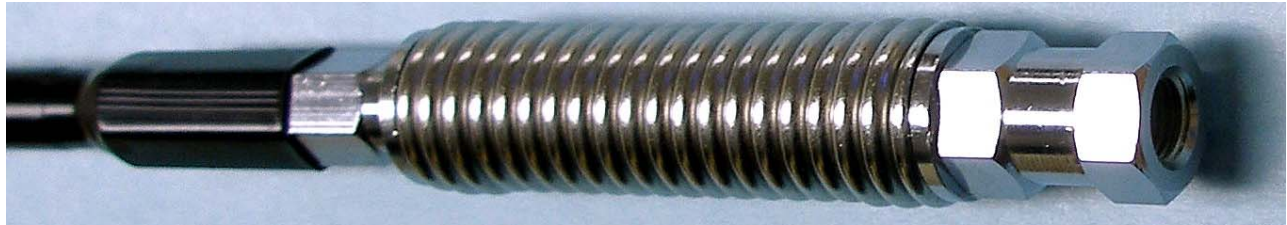
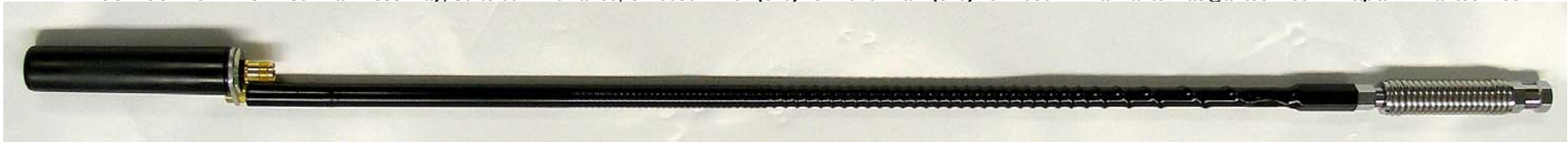




IRIDIUM/Inmarsat/GPS Antennas, P/N: 3D1216P-XT-4-CB
1" Diameter x 4.2" Tall, Threaded Bottom 2ft CB Mount Configuration



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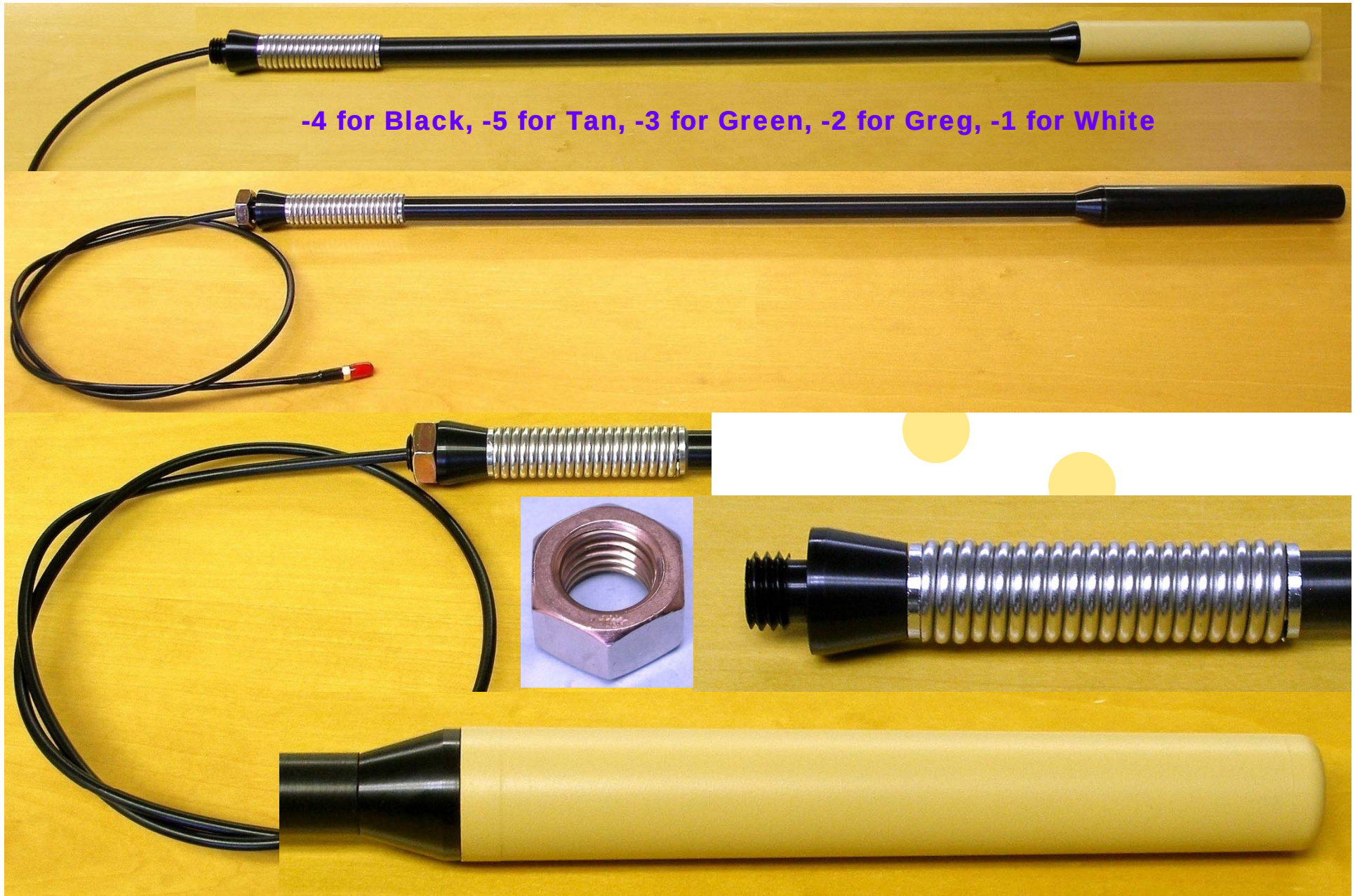
3D1216P-XT-4-CB

IRIDIUM/Inmarsat/GPS Antennas, P/N: 61RIR16RR-P-39SF-4
1" Diameter x 4.2" Tall Antenna on
5/8-11 UNC-2B Threaded Bottom 21 in Tall CB Mount



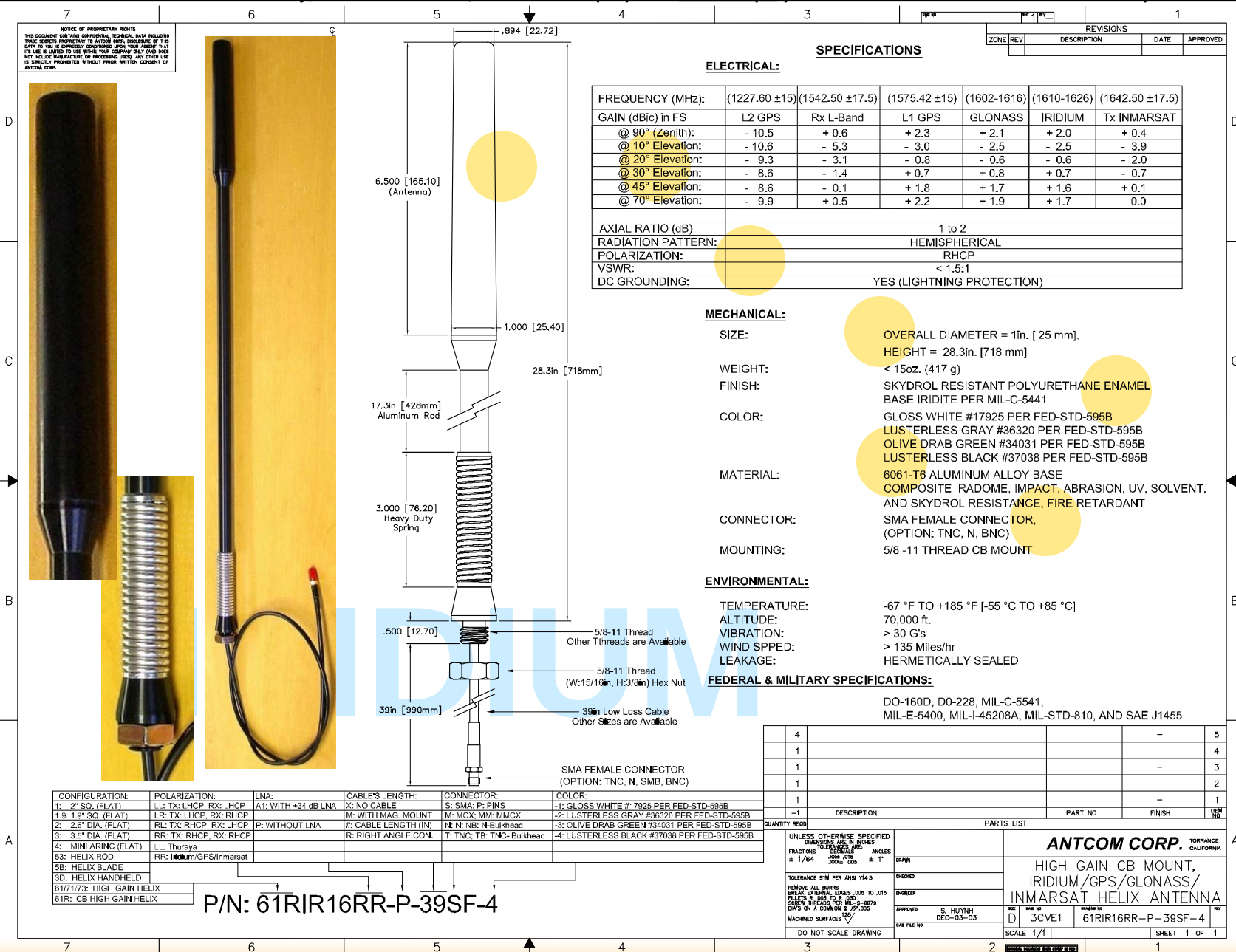
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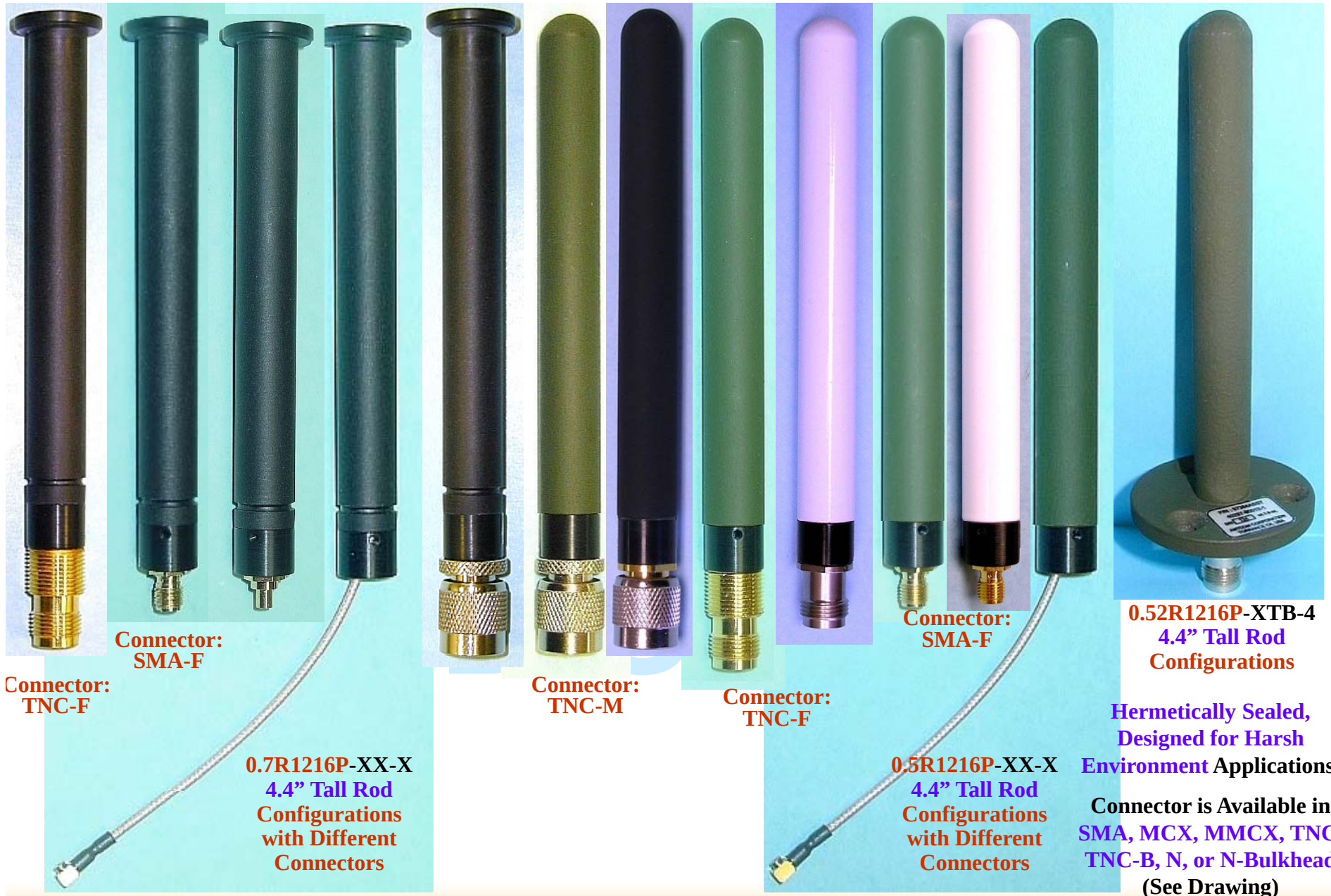
-4 for Black, -5 for Tan, -3 for Green, -2 for Greg, -1 for White





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**Connector:
SMA-F**

**Connector:
TNC-F**

**0.7R1216P-XX-X
4.4" Tall Rod
Configurations
with Different
Connectors**

**Connector:
TNC-M**

**Connector:
TNC-F**

**Connector:
SMA-F**

**0.5R1216P-XX-X
4.4" Tall Rod
Configurations
with Different
Connectors**

**0.52R1216P-XTB-4
4.4" Tall Rod
Configurations**

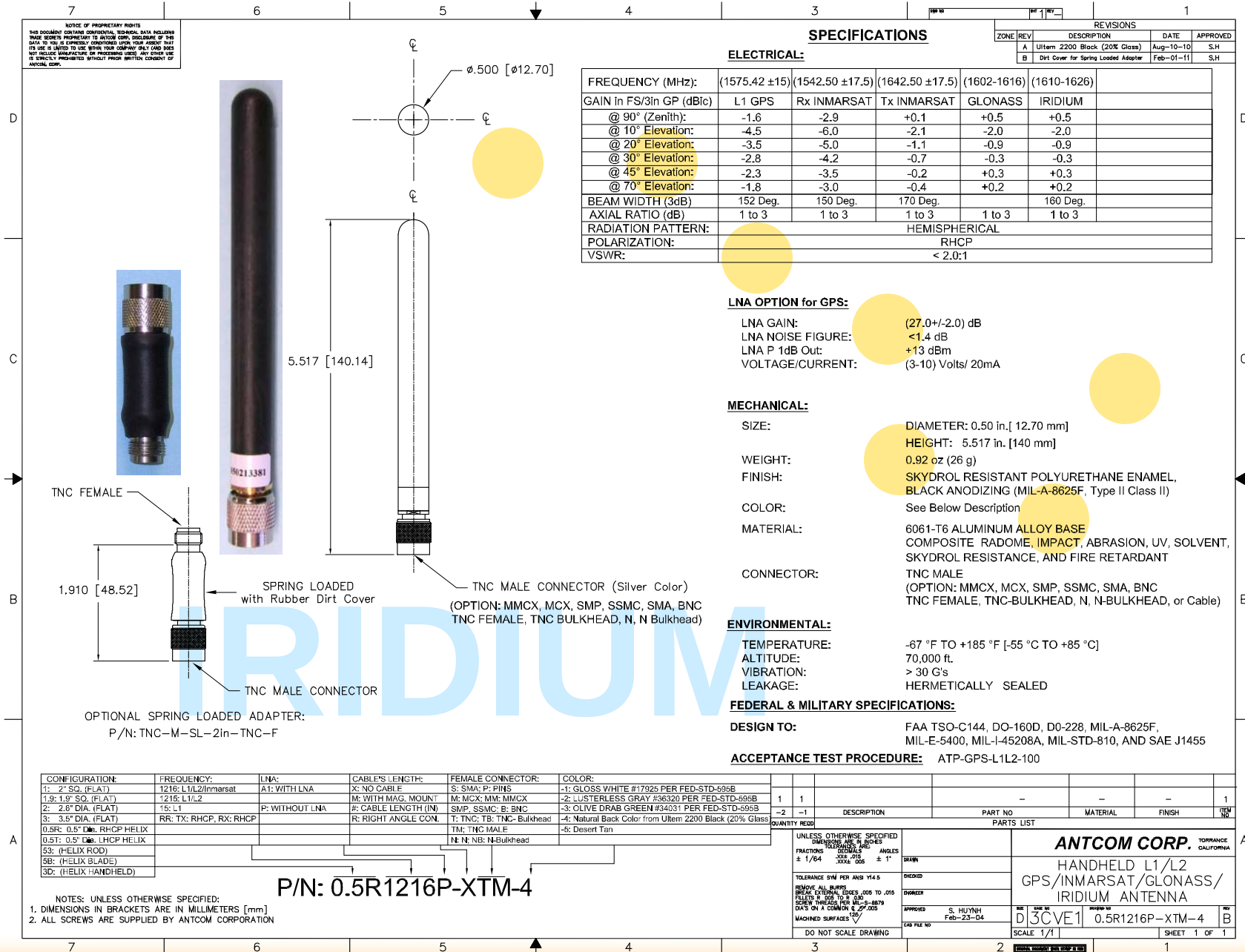
**Hermetically Sealed,
Designed for Harsh
Environment Applications.**

**Connector is Available in
SMA, MCX, MMCX, TNC,
TNC-B, N, or N-Bulkhead
(See Drawing)**

IRIDIUM/GPS Antenna, P/N: 0.5R1216P-XTM-4: 0.5" Diameter x 4.4" Tall, Threaded Bottom Mount Configuration



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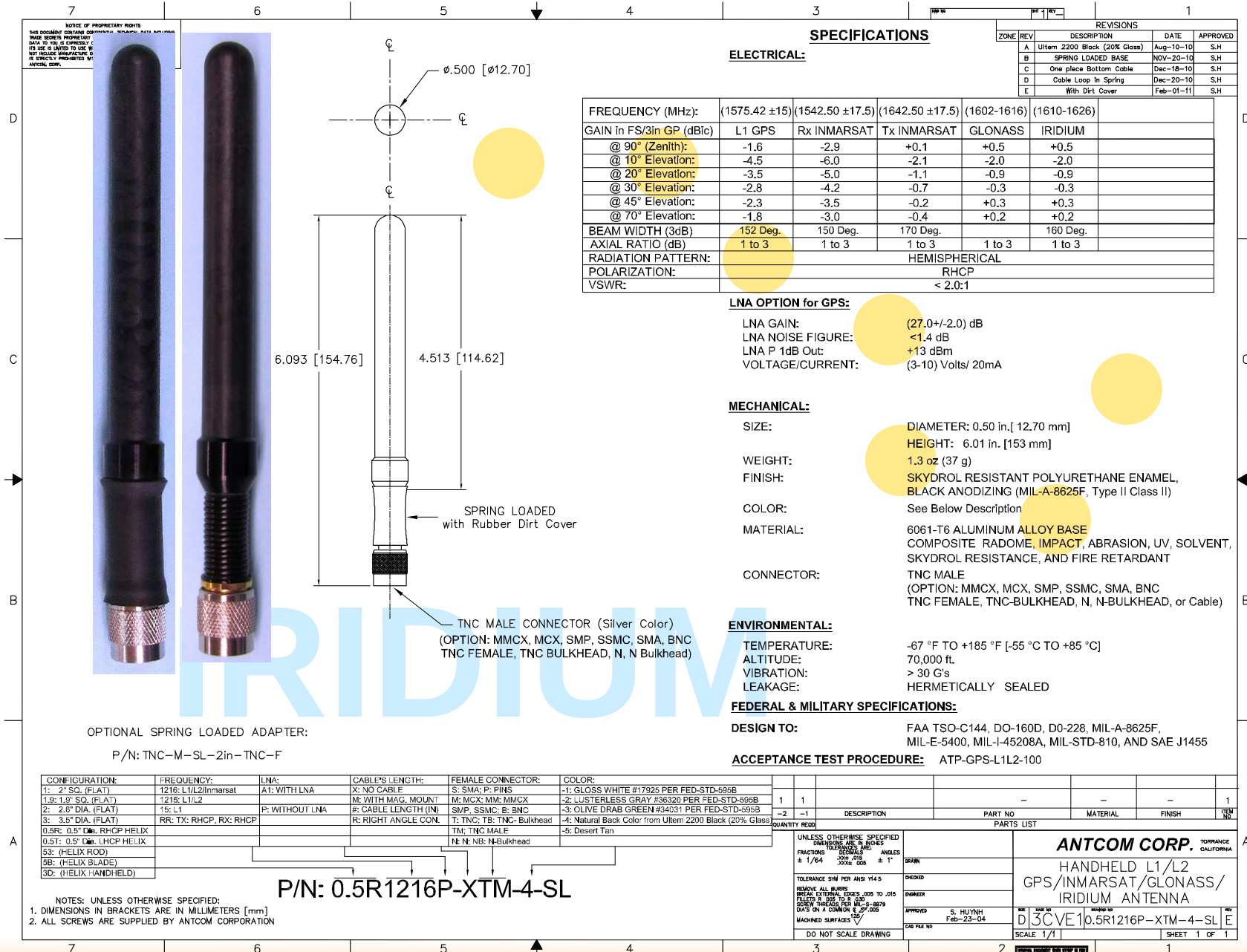
IRIDIUM/GPS Antenna, P/N: 0.5R1216P-XTM-4-SL Rev E:

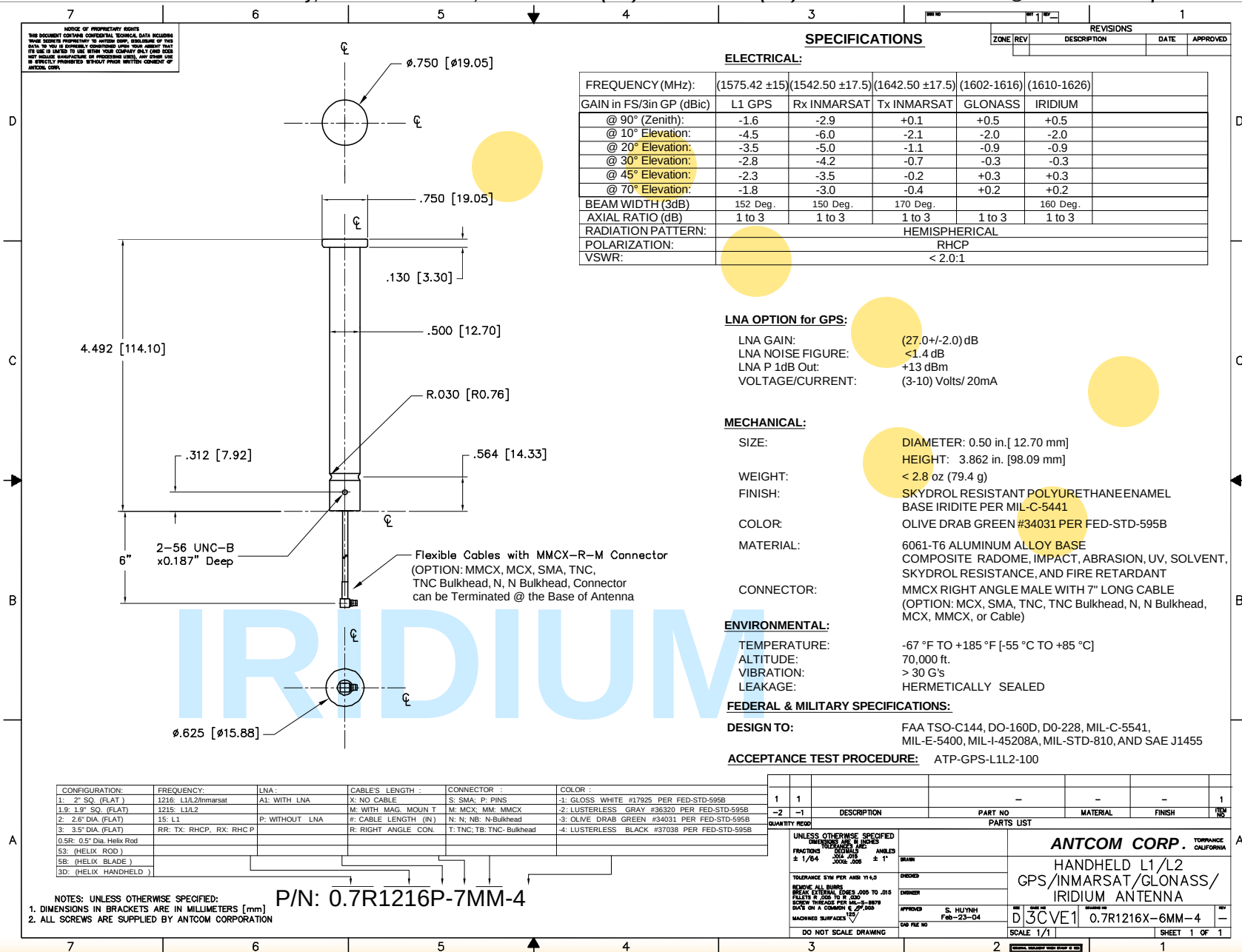
0.5" Diameter x 6" Tall,

Spring Loaded Threaded Bottom Mount Configuration



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SPECIFICATIONS

ELECTRICAL:

FREQUENCY(MHz):	(1575.42 ±15)	(1542.50 ±17.5)	(1642.50 ±17.5)	(1602-1616)	(1610-1626)
GAINin FS/3inGP (dBic)	L1 GPS	Rx INMARSAT	Tx INMARSAT	GLONASS	IRIDIUM
@ 90° (Zenith):	-1.6	-2.9	+0.1	+0.5	+0.5
@ 10° Elevation	-4.5	-6.0	-2.1	-2.0	-2.0
@ 20° Elevation	-3.5	-5.0	-1.1	-0.9	-0.9
@ 30° Elevation	-2.8	-4.2	-0.7	-0.3	-0.3
@ 45° Elevation	-2.3	-3.5	-0.2	+0.3	+0.3
@ 70° Elevation	-1.8	-3.0	-0.4	+0.2	+0.2
BEAMWIDTH(3dB)	152 Deg.	150 Deg.	170 Deg.		160 Deg.
AXIAL RATIO(dB)	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3
RADIATION PATTERN:	HEMISPHERICAL				
POLARIZATION:	RHCP				
VSWR:	< 2.0:1				

LNA OPTIONfor GPS:

LNA GAIN: (27.0+/-2.0)dB
LNA NOISE FIGURE: <1.4 dB
LNA P 1dB Out: +13 dBm
VOLTAGE/CURRENT: (3-10) Volts/20mA

MECHANICAL:

SIZE: DIAMETER: 0.375 in [9.52 mm]
HEIGHT: 3.465 in [88.00 mm]

WEIGHT: < 2.0 oz (56 g)
FINISH: SKYDROLRESISTANTPOLYURETHANENAMEL BASE IRIDITEPER MIL-C-5441

COLOR: OLIVE DRAB GREEN #34031 PER FED-STD-595B

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
COMPOSITE RADOME IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE AND FIRE RETARDANT

CONNECTOR: MMCX RIGHT ANGLE MALE WITH 7" LONG CABLE (OPTION: MCX, SMA, TNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX, or Cable)

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]
ALTITUDE: 70,000 ft.
VIBRATION: > 30 G's
LEAKAGE: HERMETICALLY SEALED

FEDERAL & MILITARY SPECIFICATIONS

DESIGN TO: FAA TSO-C144, DO-160D, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810 AND SAE J1455

ACCEPTANCE TEST PROCEDURE ATP-GPS-L1L2-100

CONFIGURATION:

CONFIGURATION:	FREQUENCY:	LNA:	CABLE LENGTH:	CONNECTOR:	COLOR:
1: 2" SQ. (FLAT)	1216 L1/L2 / Inmarsat	A1: WITH LNA	X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.9: 1.9" SQ. (FLAT)	1215 L1/L2		M: WITH MAG MOUNT	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA. (FLAT)	15 L1	P: WITHOUT LNA	#: CABLE LENGTH (IN)	N: N; NB: N Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
3: 3.5" DIA. (FLAT)	RR: TX: RHCP RX: RHCP		R: RIGHT ANGLE CON.	T: TNC; TB: TNC Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
0.5R: 0.5" Dia. Helix Rod	16: 1.616 GHz				
53: (HELIX ROD)					
5B: (HELIX BLADE)					
3D: (HELIX HAND HELD)					

NOTES: UNLESS OTHERWISE SPECIFIED:
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm].
2. ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

P/N: 0.375R16P-0.25X-X

ANTCOM CORP. TORRANCE, CALIFORNIA

0.375in Dia Bare GPS/INMARSAT/GLONASS/IRIDIUM HELIX ANTENNA

D3C VE1 0.375R16P-0.25X-X

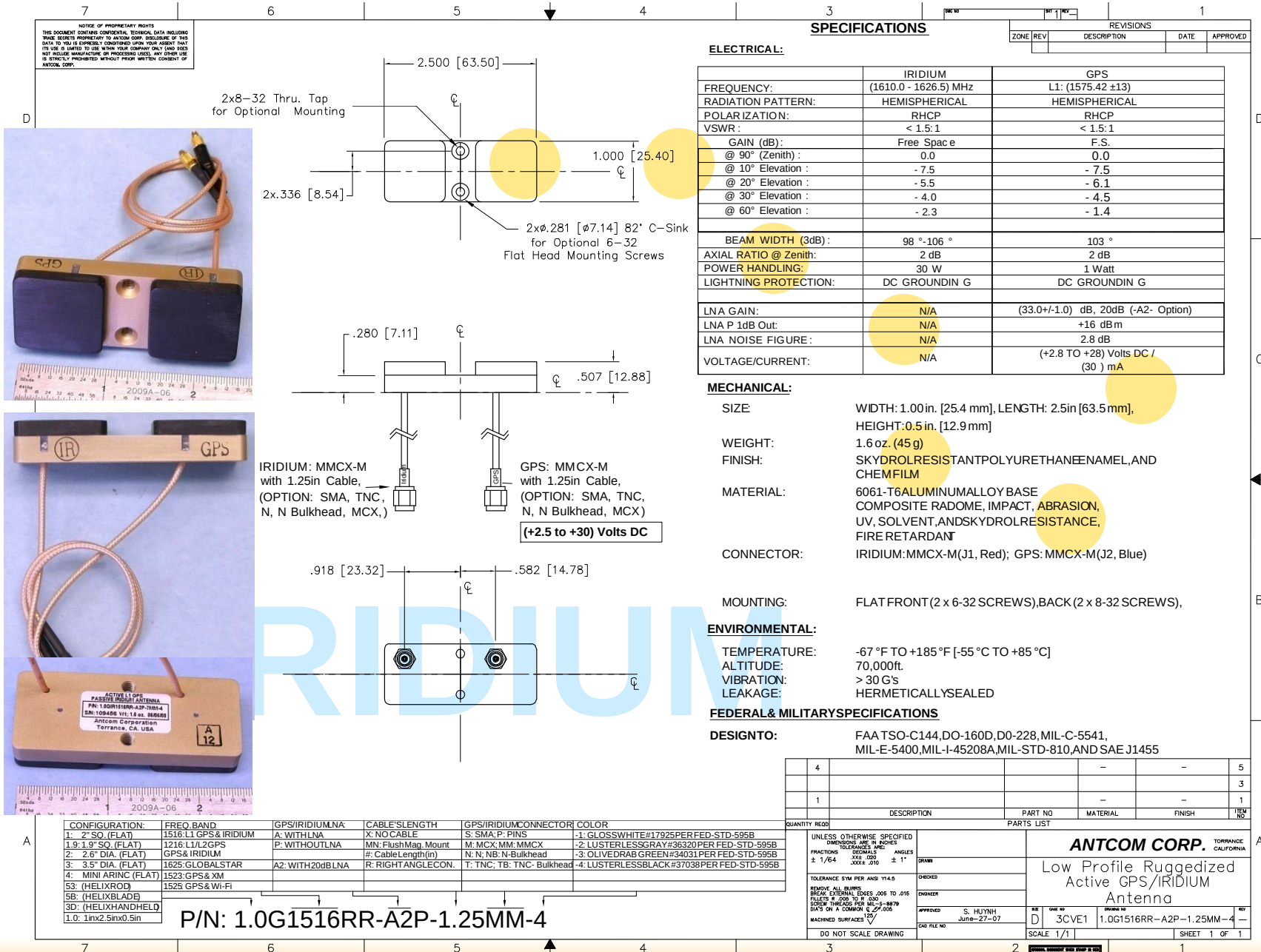
SCALE 1/1

SHEET 1 OF 1

Active GPS & (IRIDIUM/Inmarsat or Thuraya) Antenna:
P/N: 1.0GIR1516RR-A2P-1.25MM-4
(1.0"x 2.5"x 0.5"), Front, or Back Mount with Bottom Cable



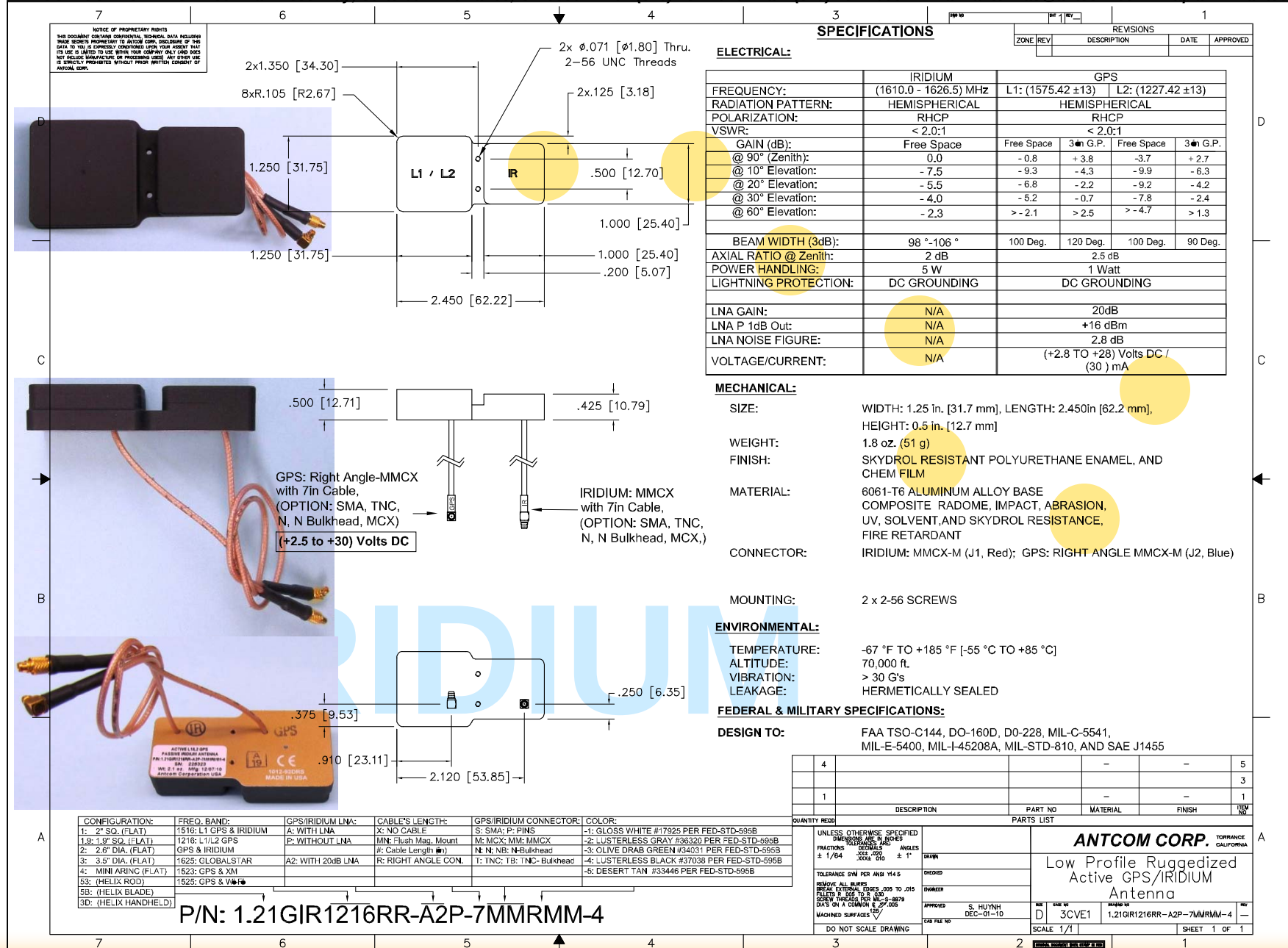
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Active L2/L2 GPS & IRIIDIUM Antenna:
P/N: 1.21GIR1216RR-A2P-7MMRMM-4
(1.25"x 2.45"x 0.5"), Front/Back Mount with Bottom Cable



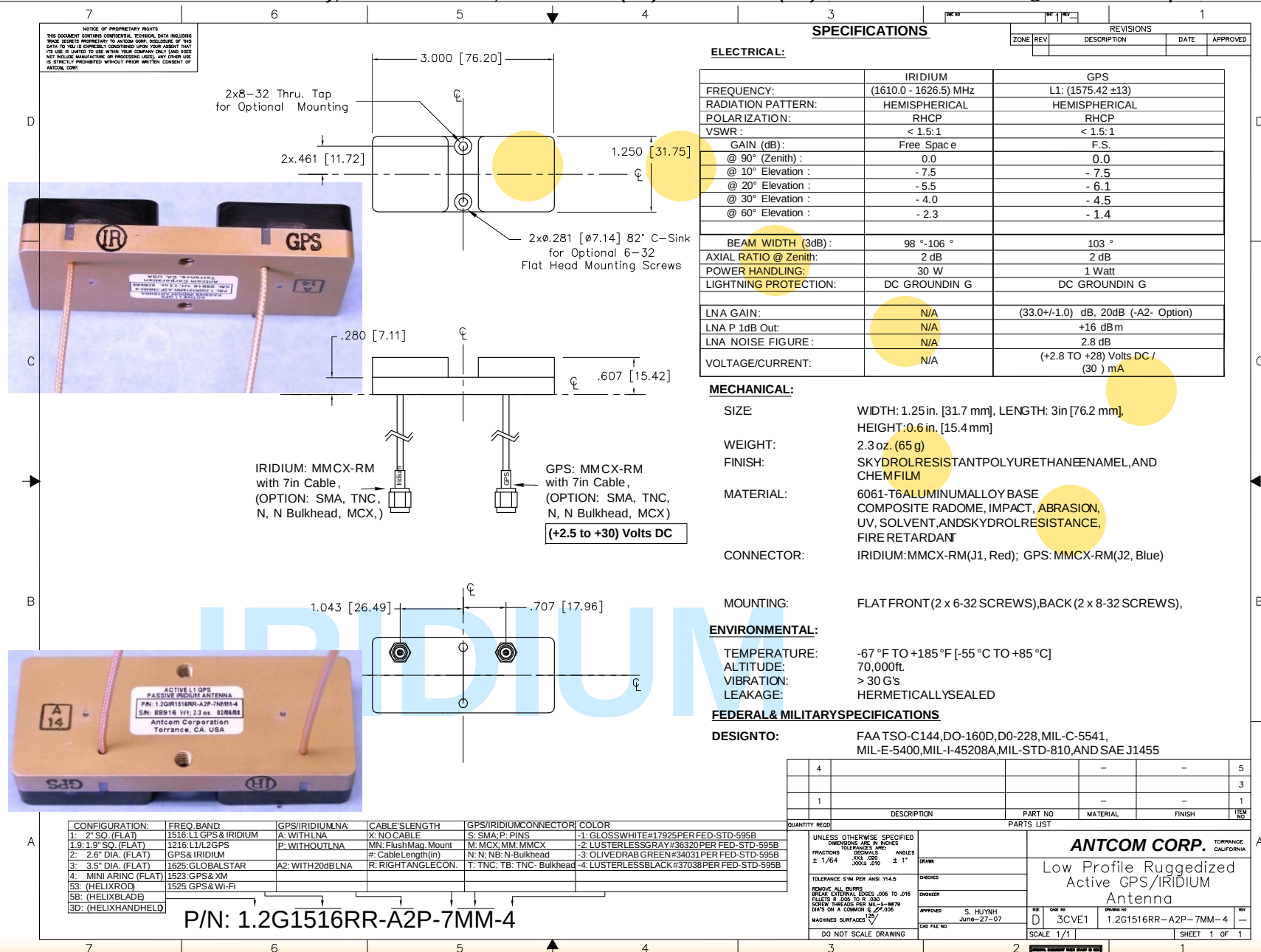
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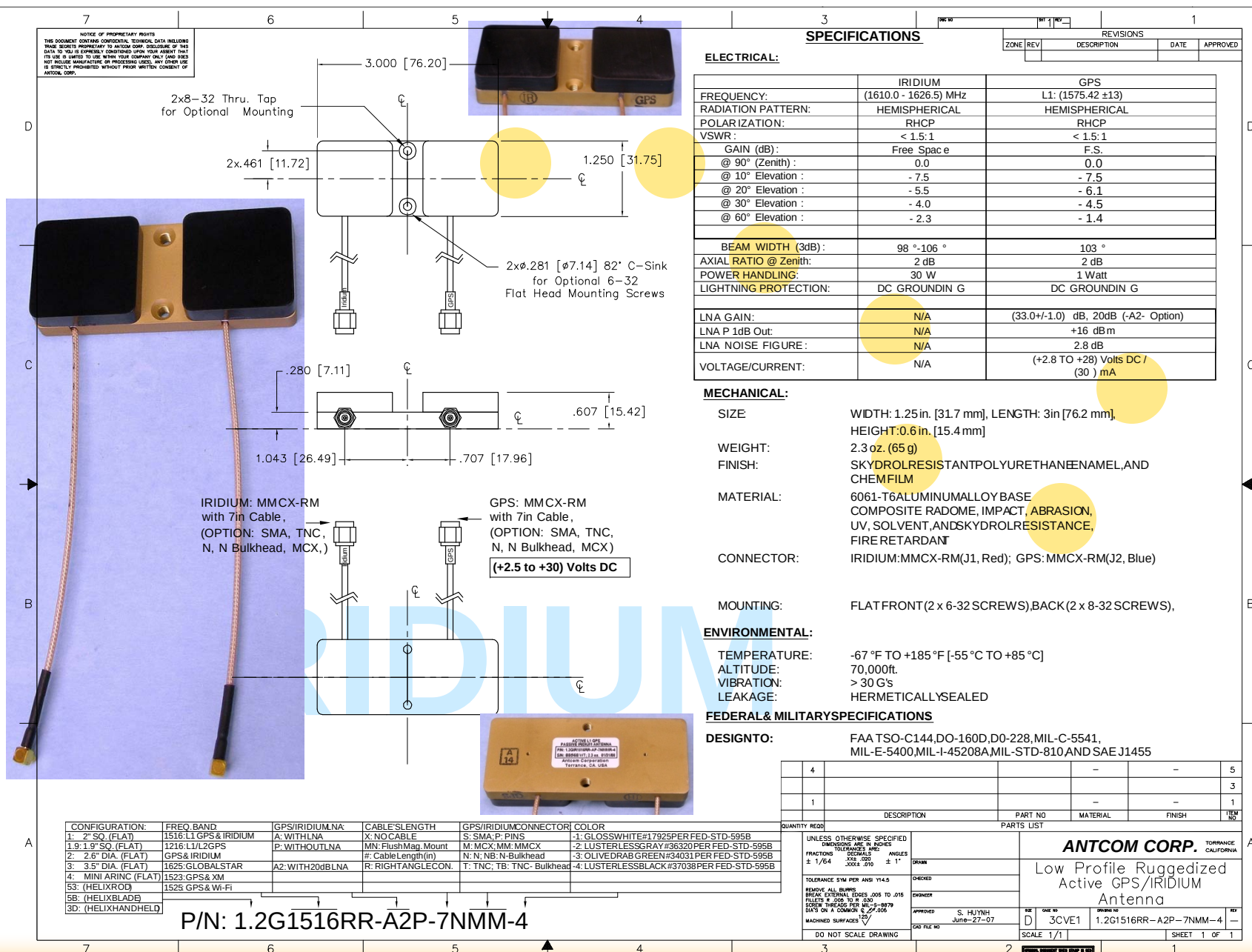


Active GPS & (IRIDIUM/Inmarsat or Thuraya) Antenna:
P/N: 1.2GIR1516RR-A2P-7MM-4
(1.2"x 3.0"x 0.6"), Front, or Back Mount with Bottom Cable



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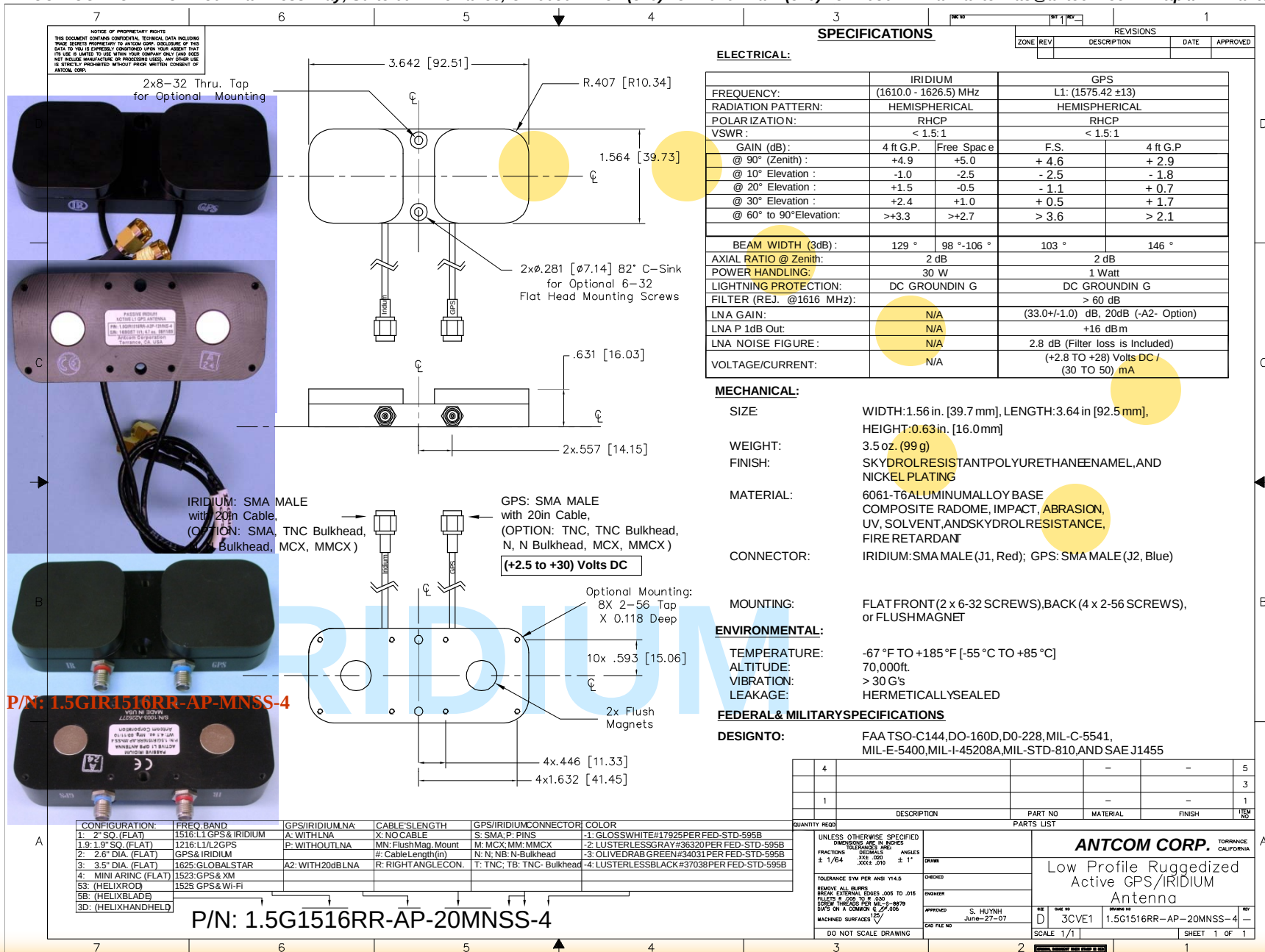




Active GPS & (IRIDIUM/Inmarsat or Thuraya) Antenna:
P/N: 1.5GIR1516RR-AP-20MNSS-4
(3.6"x 1.5"x 0.6"), Front, Back or Magnetic Mount with Cable



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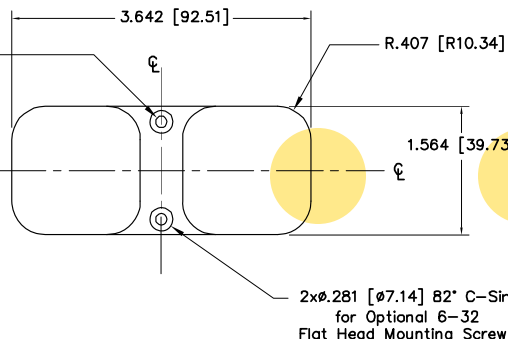
Active GPS & (IRIDIUM/Inmarsat or Thuraya) Antenna:
P/N: 1.5GIR1516RR-AP-XSS-4, (3.6"x 1.5"x 0.6"), Front/Back
With BNC, TNC, SMA, N Connector Options.



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2x8-32 Thru. Tap
for Optional Mounting



SPECIFICATIONS

ELECTRICAL:

	IRIDIUM	GPS
FREQUENCY:	(1610.0 - 1626.5) MHz	L1: (1575.42 ±13)
RADIATION PATTERN:	HEMISPHERICAL	HEMISPHERICAL
POLARIZATION:	RHCP	RHCP
VSWR:	< 1.5:1	< 1.5:1
GAIN (dB):	4 ft G.P. Free Space	F.S.
@ 90° (Zenith):	+4.9	+4.6
@ 10° Elevation:	-1.0	-2.5
@ 20° Elevation:	+1.5	-1.1
@ 30° Elevation:	+2.4	+0.5
@ 60° to 90° Elevation:	>+3.3	> 3.6
BEAM WIDTH (3dB):	129 ° 98 °-106 °	103 ° 146 °
AXIAL RATIO @ Zenith:	2 dB	2 dB
POWER HANDLING:	30 W	1 Watt
LIGHTNING PROTECTION:	DC GROUNDING	DC GROUNDING
FILTER (REJ. @1616 MHz):		> 60 dB
LNA GAIN:	N/A	(33.0±1.0) dB, 20dB (-A2- Option)
LNA P 1dB Out:	N/A	+16 dBm
LNA NOISE FIGURE:	N/A	2.8 dB (Filter loss is included)
VOLTAGE/CURRENT:	N/A	(+2.8 TO +28) Volts DC / (30 TO 50) mA

MECHANICAL:

SIZE: WIDTH:1.56 in. [39.7 mm], LENGTH:3.64 in [92.5 mm],
HEIGHT:0.63 in. [16.0 mm]
WEIGHT: 3.5 oz. (99 g)
FINISH: SKYDROLRESISTANTPOLYURETHANENAMEL, AND NICKEL PLATING
MATERIAL: 6061-T6ALUMINUMALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT,ANDSKYDROLRESISTANCE, FIRERETARDANT
CONNECTOR: IRIDIUM:SMA MALE (J1, Red); GPS: SMA MALE (J2, Blue)

MOUNTING: FLAT FRONT (2 x 6-32 SCREWS),BACK (4 x 2-56 SCREWS), or FLUSHMAGNET

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]
ALTITUDE: 70,000ft.
VIBRATION: > 30 G's
LEAKAGE: HERMETICALLYSEALED

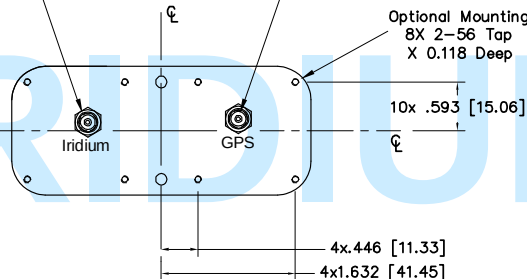
FEDERAL & MILITARY SPECIFICATIONS

DESIGN TO: FAA TSO-C144, DO-160D, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

IRIDIUM: SMA MALE with 20in Cable, (OPTION: SMA, TNC Bulkhead, N, N Bulkhead, MCX, MMCX)

GPS: SMA MALE with 20in Cable, (OPTION: TNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX) (+2.5 to +30) Volts DC

Optional Mounting:
8X 2-56 Tap
X 0.118 Deep



CONFIGURATION:	FREQ BAND	GPS/IRIDIUM/LNA	CABLE LENGTH	GPS/IRIDIUM/CONNECTOR	COLOR
1: 2" SQ. (FLAT)	1516: L1 GPS & IRIDIUM	A: WITH LNA	X: NO CABLE	S: SMA; P: PINS	1: GLOSSWHITE#17925PER FED-STD-595B
1.9: 1.9" SQ. (FLAT)	1216: L1/L2 GPS	P: WITHOUT LNA	MN: FlushMag. Mount	M: MCX; MM: MMCX	2: LUSTERLESSGRAY#36320PER FED-STD-595B
2: 2.6" DIA. (FLAT)	GPS & IRIDIUM	#: CableLength(in)	N: N; NB: N-Bulkhead	N: N; NB: N-Bulkhead	3: OLIVEDRABGREEN#34031PER FED-STD-595B
3: 3.5" DIA. (FLAT)	1625: GLOBALSTAR	A2: WITH 20dB LNA	R: RIGHT ANGLECON.	T: TNC; TB: TNC- Bulkhead	4: LUSTERLESSBLACK#37038PER FED-STD-595B
4: MINI ARING (FLAT)	1523: GPS & XM				
53: (HELIXROD)	1523: GPS & WI-FI				
5B: (HELIXBLADE)					
5D: (HELIXHANDHELD)					

P/N: 1.5G1516RR-AP-XSS-4

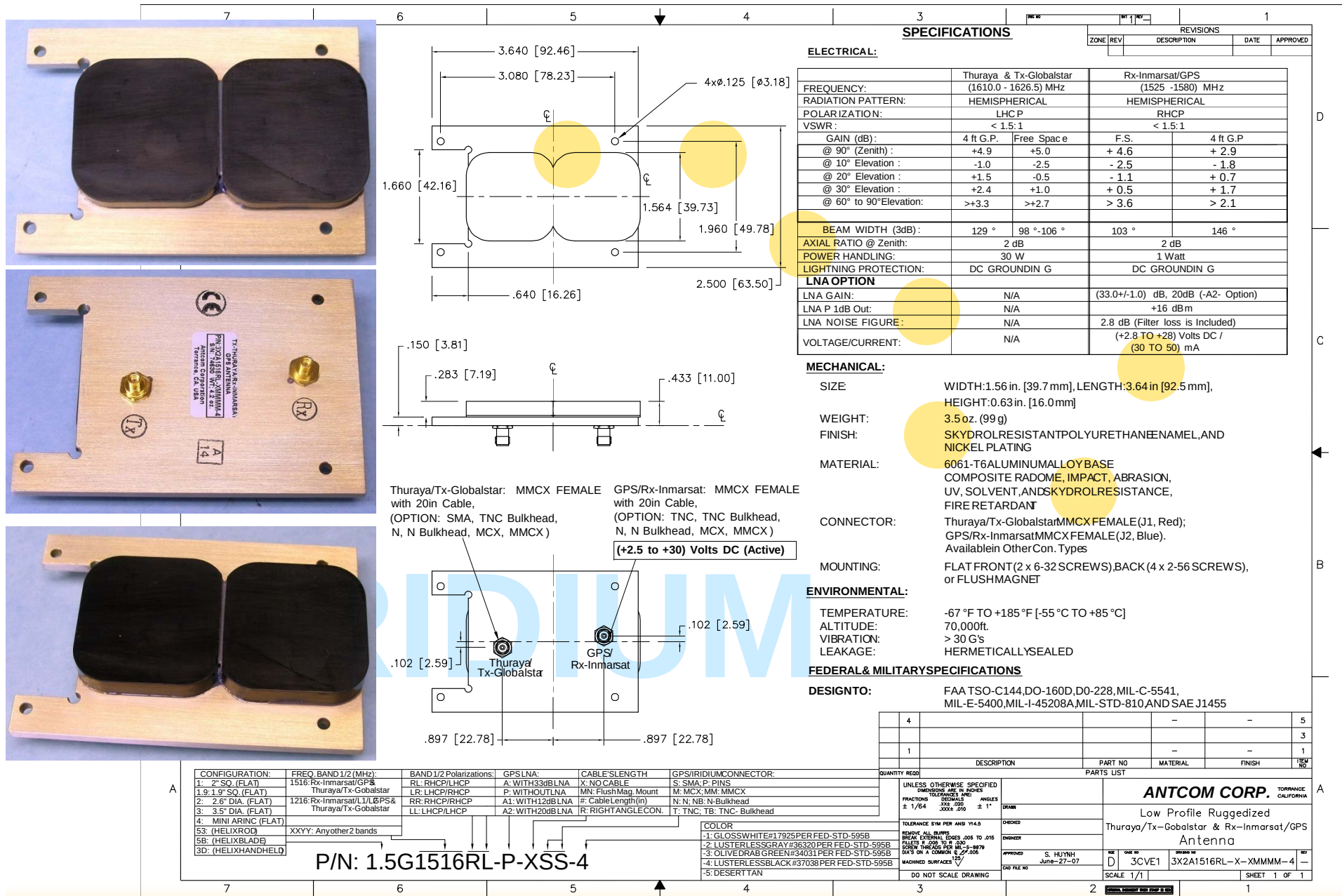
QUANTITY	DESCRIPTION	PART NO	MATERIAL	FINISH	REVISION
4					5
1					3
1					1
PARTS LIST					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES					
TOLERANCE .010 PER ANSI Y14.5					
HOLE POSITION .010 PER ANSI Y14.5					
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ISO9001

RHCP RX-Inmarsat/GPS & LHCP Thuraya/TX-Globalstar Antenna:**P/N: 3x2G1516RL-P-XMMM-4****(3.64"x 2.50"x 0.43"), Front Mount (Other Configurations are Available)**

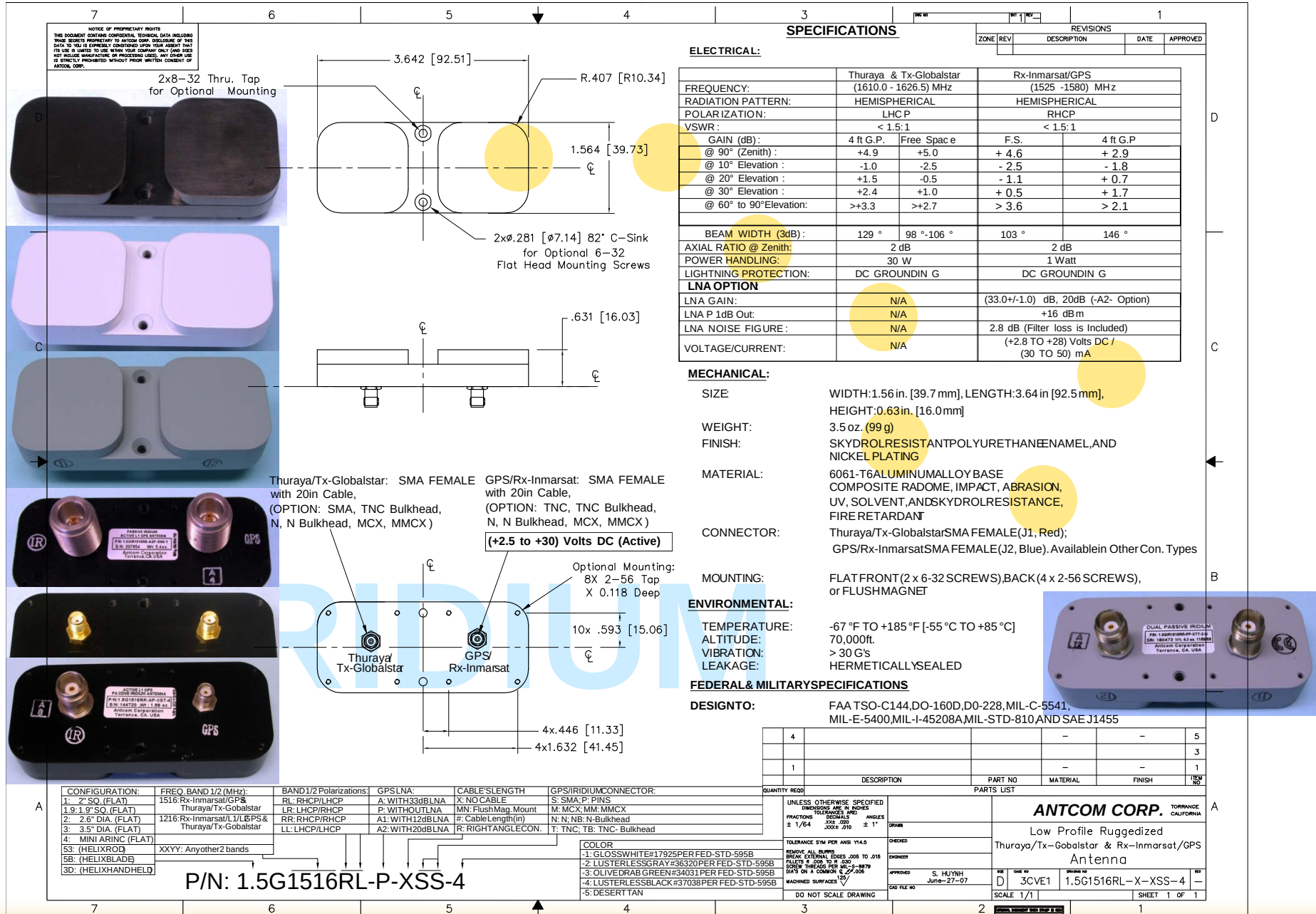
ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501 . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . http://www.antcom.com



RHCP RX-Inmarsat/GPS & LHCP Thuraya/TX-Globalstar Antenna: P/N: 1.5G1516RL-P-XSS-4 (3.6"x 1.5"x 0.6"), Front Mount (Other Configurations are Available)



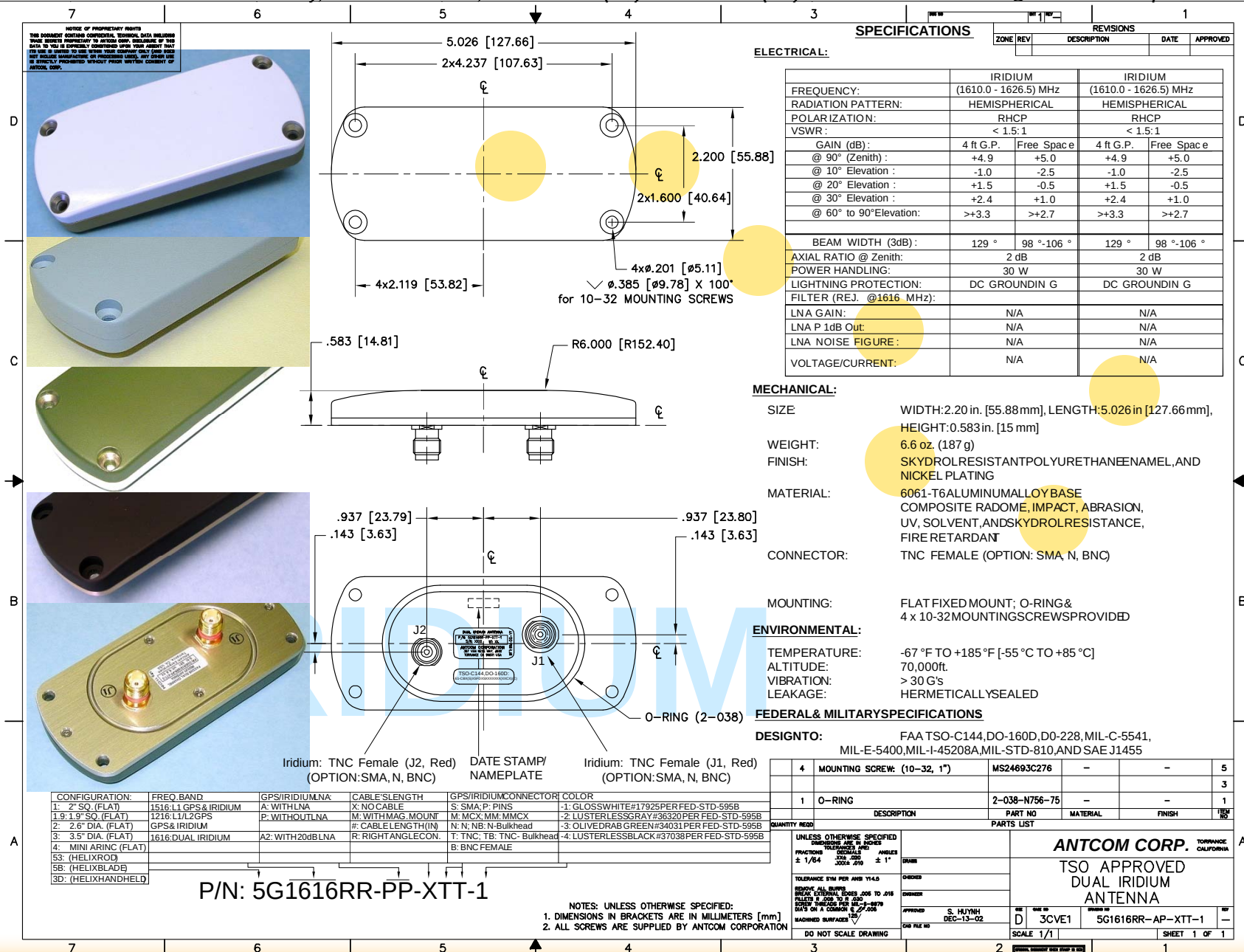
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Dual Channel IRIDIUM Antenna, P/N: 5GIR1616RR-PP-XTT-X :
(5.03"x2.08"x0.69"), Flat/Pipe mount Configuration,
With BNC, TNC, SMA, N Connector Options.



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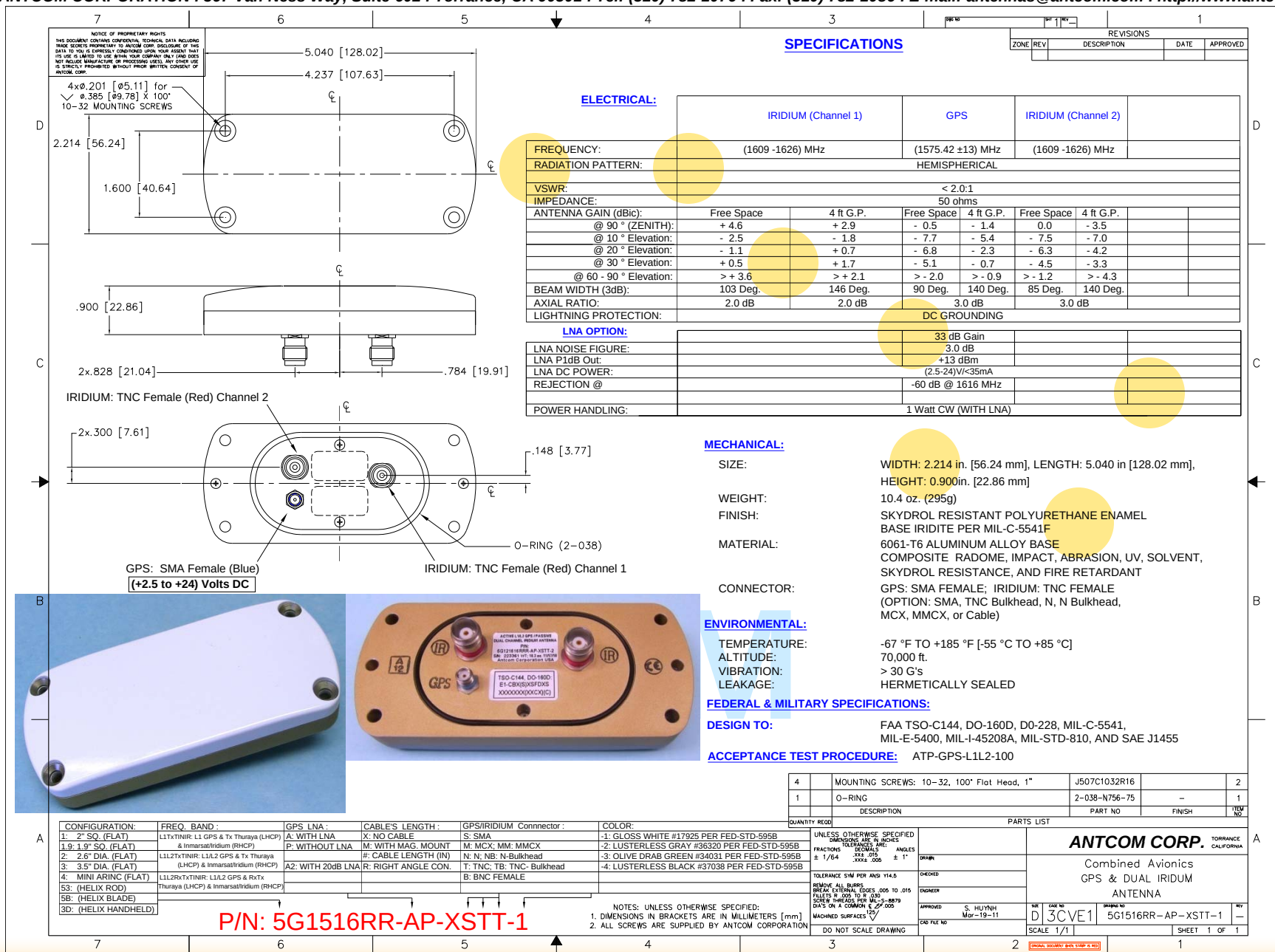


ISO9001

New 3-Ports, Active L1 GPS & Dual Iridium Antenna, P/N: 5G1516RR-AP-XSTT-1,
Active L1/L2 GPS & Dual Iridium Antenna, P/N: 5G1216RR-AP-XSTT-1
(5.04"x2.2"x0.9"), Flat, Top Mount, Bottom Connector Configuration



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S5GIR1X16RR-AP-XXX-1 (White)



S5GIR1X16RR-AP-XXX-3 (Green)



S5GIR1X16RR-AP-XXX-4 (Black)

Hermetically Sealed, Designed for Harsh Environment Applications.

Connector is Available in SMA, MCX, MMCX, TNC, TNC-B, N, or N-Bulkhead (See Drawing)



S5GIR1X16RR-AP-XTT-X (TNC Con.)



S5GIR1X16RR-AP-XNN-X (N Con.)



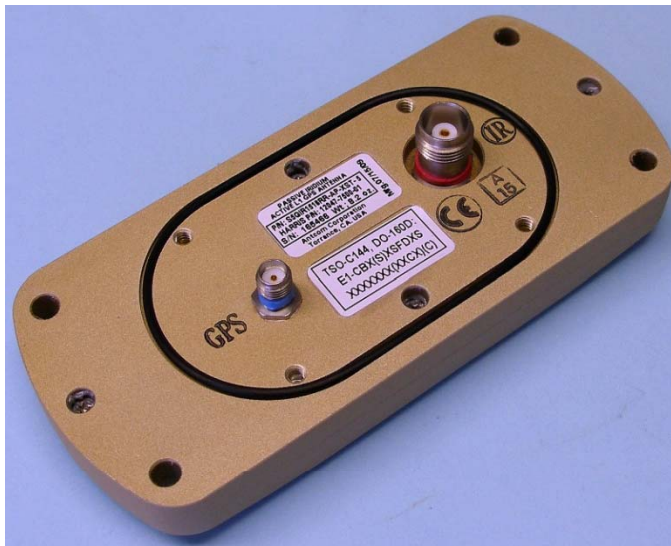
S5GIR1X16RR-AP-XST-X (SMA/TNC Con.)



S5GIR1X16RR-AP-XST-5 (Desert Sand)



S5GIR1X16RR-AP-XST-2 (Gray)



S5GIR1X16RR-AP-XST-2 (Gray)

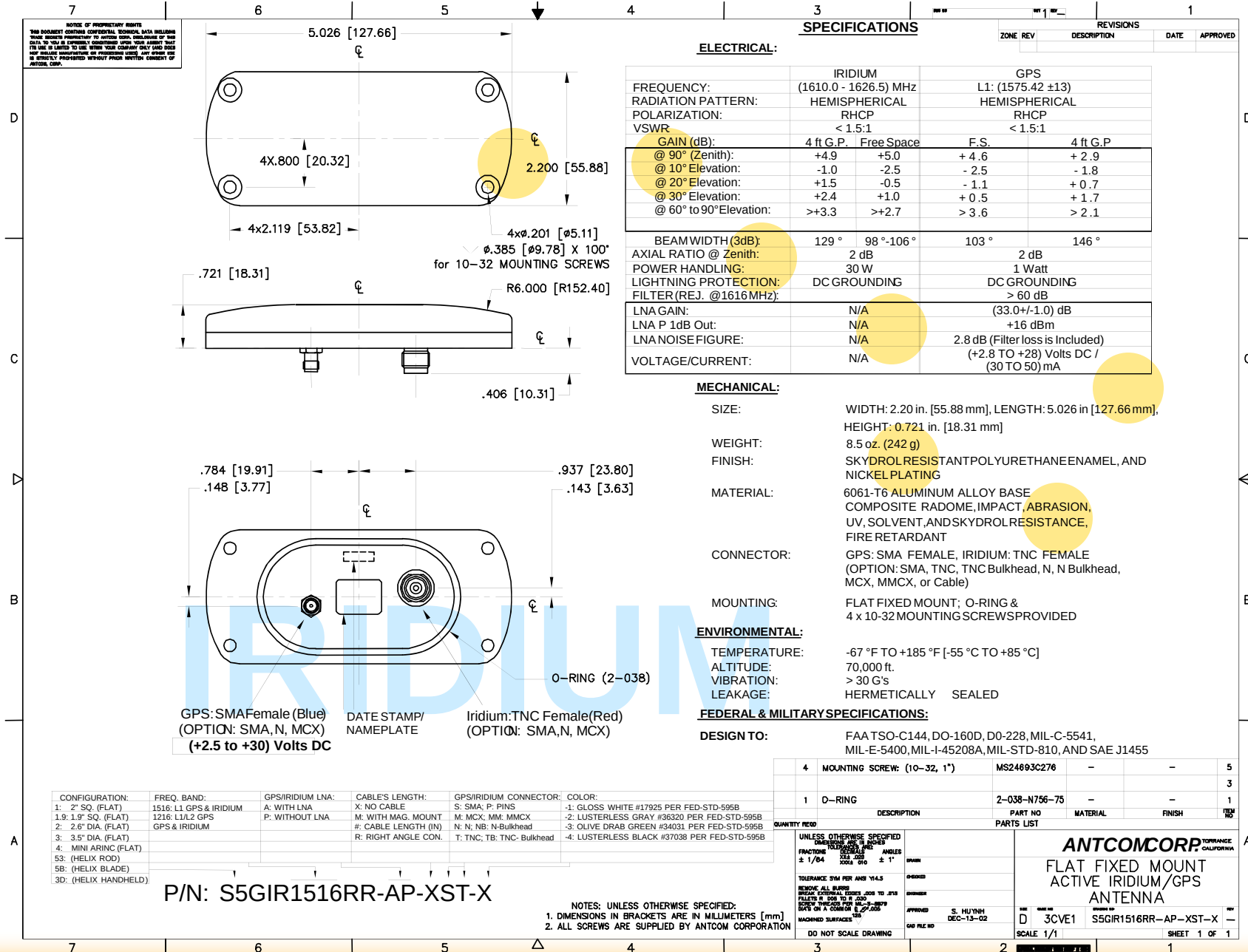
Hermetically Sealed, Designed for Harsh Environment Applications.

Connector is Available in SMA, MCX, MMCX, TNC, TNC-B, N, or N-Bulkhead (See Drawing)

Active L1 GPS & (IRIDIUM/Inmarsat or Thuraya) Antenna:
(5.03"x2.08"x0.69"), Flat/Pipe mount, P/N: S5GIR1516RR-AP-XST-X
With BNC, TNC, SMA, N Connector Options.



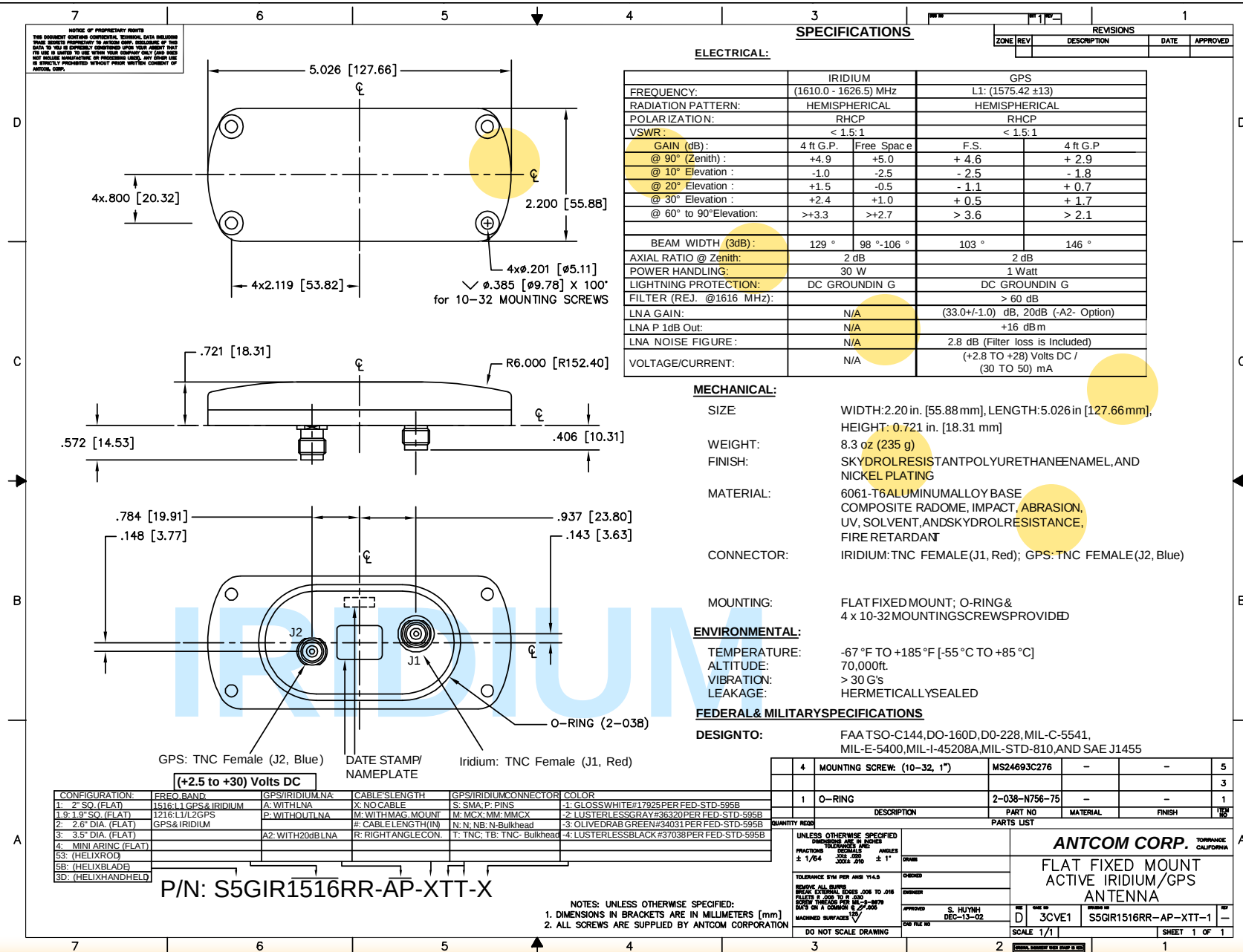
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Active L1 GPS & (IRIDIUM/Inmarsat or Thuraya) Antenna:
(5.03"x2.08"x0.69"), Flat/Pipe mount, P/N: S5GIR1516RR-AP-XTT-X
With BNC, TNC, SMA, N Connector Options.



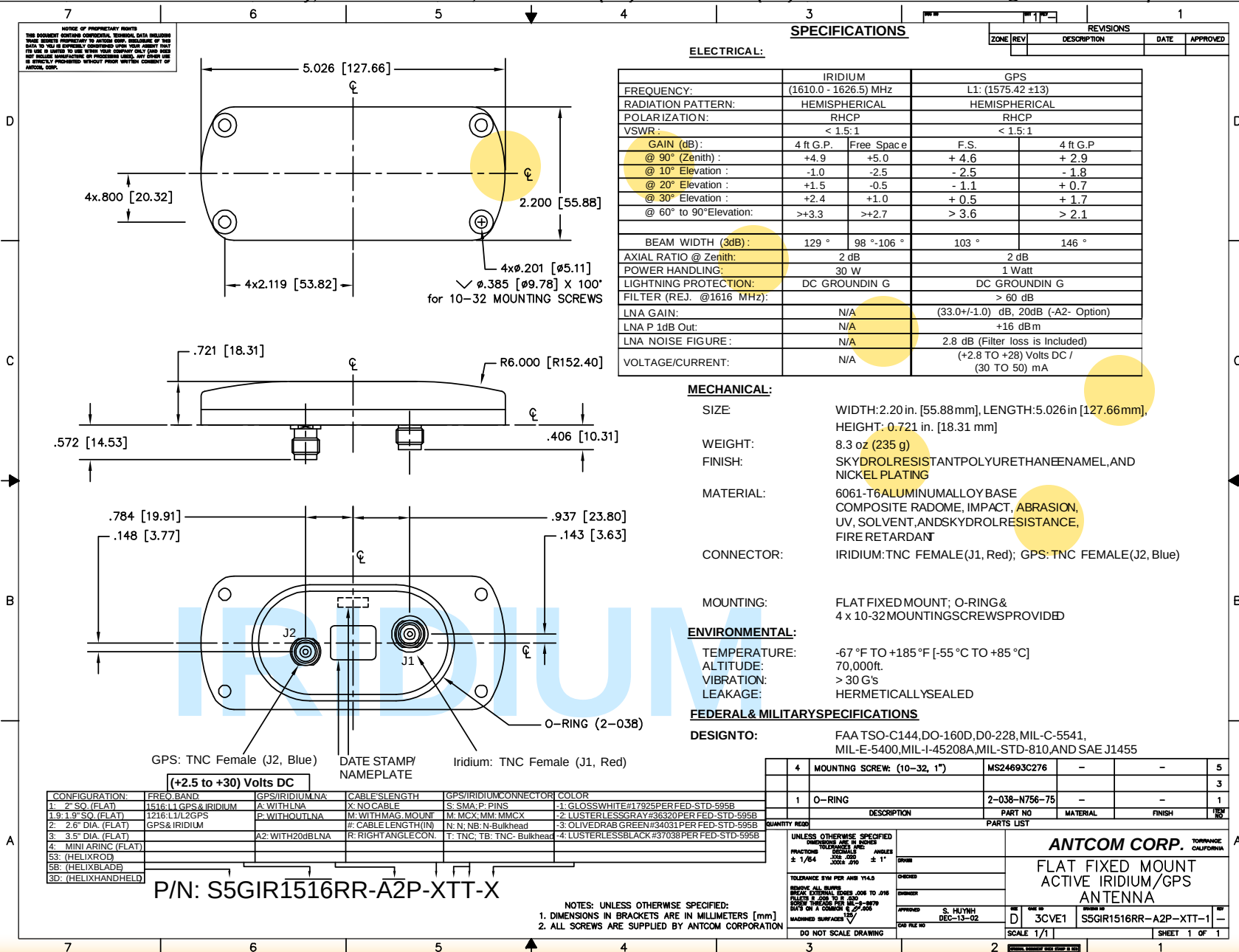
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Active L1 GPS & (IRIDIUM/Inmarsat or Thuraya) Antenna:
(5.03"x2.08"x0.69"), Flat/Pipe mount, P/N: S5GIR1516RR-A2P-XTT-X
With BNC, TNC, SMA, N Connector Options.

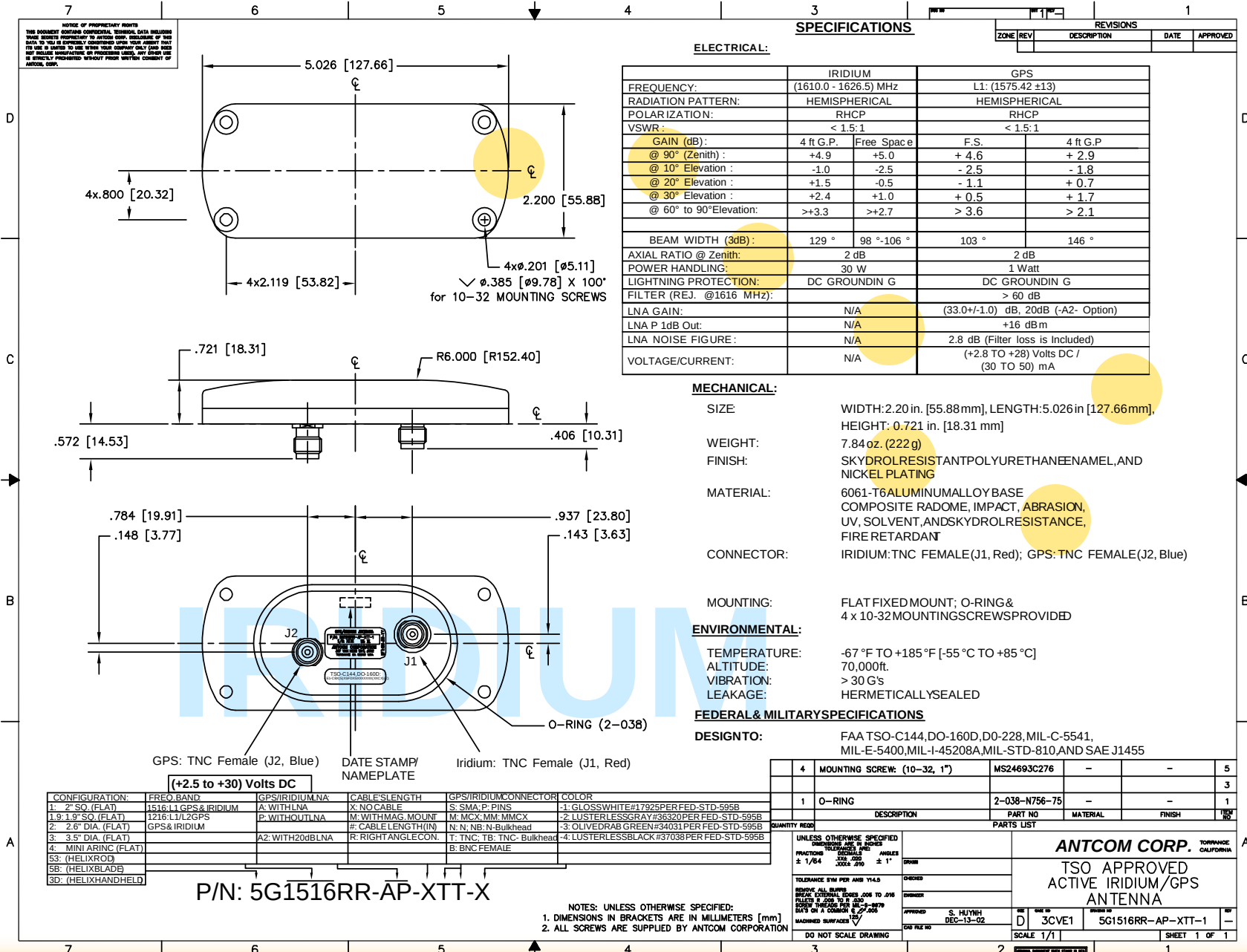


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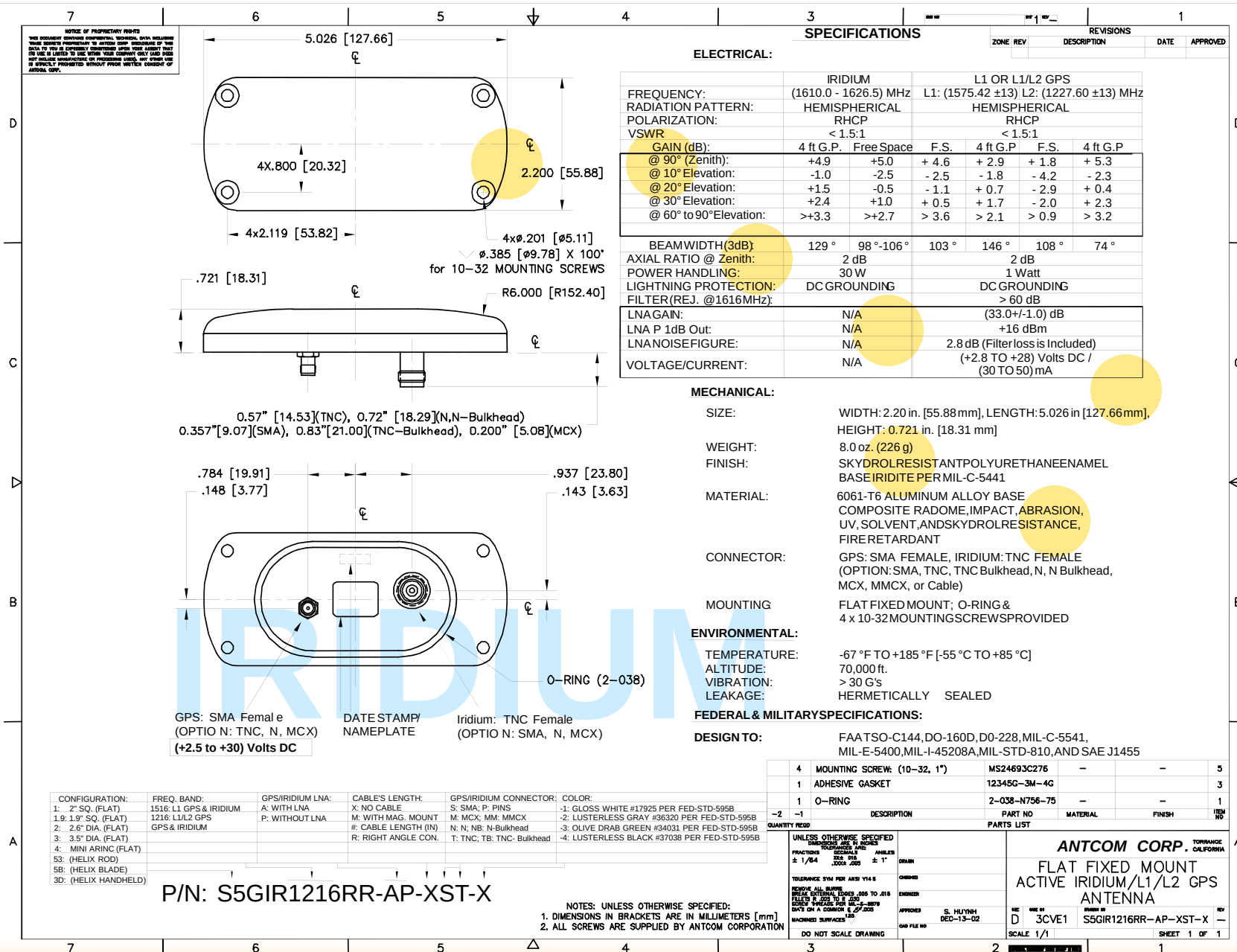
Active L1 GPS & (IRIDIUM/Inmarsat or Thuraya) Antenna:
(5.03"x2.08"x0.69"), Flat/Pipe mount, P/N: 5G1516RR-AP-XTT-X
With BNC, TNC, SMA, N Connector Options.

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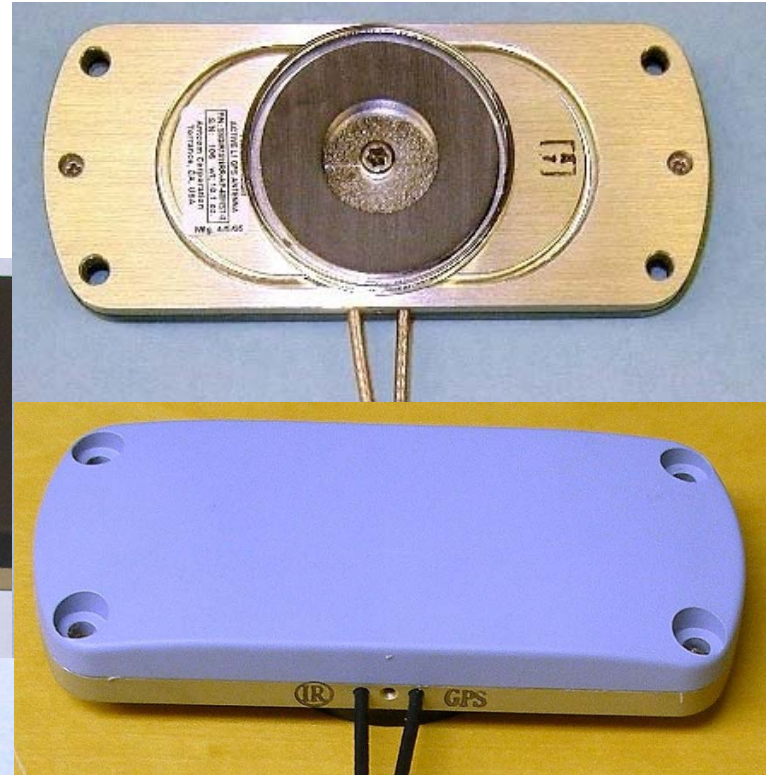
Active GPS & (IRIDIUM/Inmarsat or Thuraya) Antenna:
(5.03"x2.08"x0.69"), Removable Magnetic Mount, Side Connectors or Cables



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P/N: S5GIR1516RR-AP-60MST-3,
Green



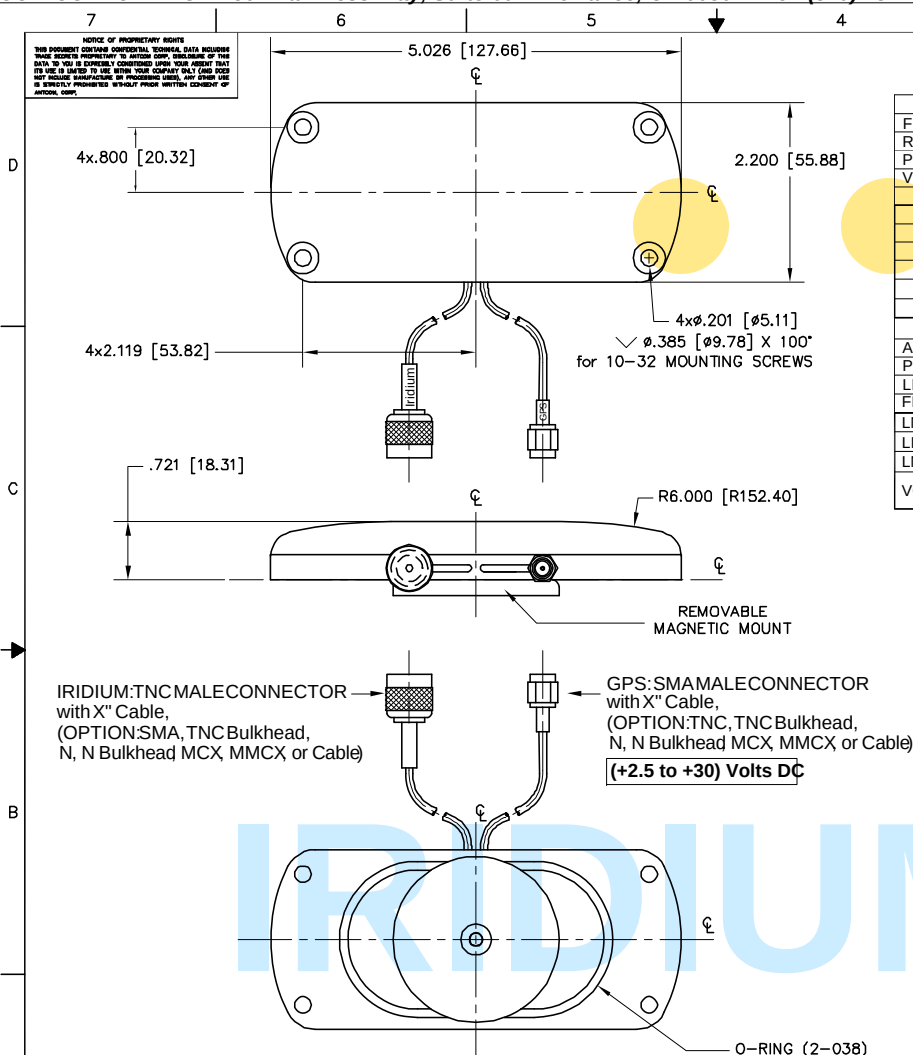
P/N: S5GIR1516RR-AP-MTT-3,
Green



P/N: S5GIR1516RR-AP-MST-4, Black



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CONFIGURATION	FREQ. BAND	GPS/IRIDIUM LNA	CABLE'S LENGTH(MM)	GPS/IRIDIUM CONNECTOR	COLOR
1: 2" SQ. (FLAT)	1516: L1 GPS & IRIDIUM	A: WITH LNA	X: CABLE LENGTH (IN)	S: SMA, P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.9: 1.9" SQ. (FLAT)	1216: L1&2 GPS	P: WITHOUT LNA	M: WITH MAGNE T	M: MCK, MM: MCMX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA. (FLAT)	GPS & IRIDIUM		N: WITHOUT MAGNET	N: N, NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
3: 3.5" DIA. (FLAT)				T: TNC, TB: TNC- Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARING (FLAT)					
5: (HELIX ROD)					
5B: (HELIX BLADE)					
3D: (HELIX HANDHELD)					

P/N: S5GIR1216RR-AP-XMST-X

NOTES: UNLESS OTHERWISE SPECIFIED:
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
2. ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

SPECIFICATIONS

ELECTRICAL:		ZONE	REV	DESCRIPTION		DATE
	IRIDIUM	L1 OR L1/L2 GPS				
FREQUENCY:	(1610.0 - 1626.5) MHz	L1: (1575.42 ±13) L2: (1227.60 ±13) MHz				
RADIATION PATTERN:	HEMISPHERICAL	HEMISPHERICAL				
POLARIZATION:	RHCP	RHCP				
VSWR:	< 1.5:1	< 1.5:1				
GAIN (dB):	4 ft G.P.	Free Space	F.S.	4 ft G.P.	F.S.	4 ft G.P.
@ 90° (Zenith):	+4.9	+5.0	+ 4.6	+ 2.9	+ 1.8	+ 5.3
@ 10° Elevation:	-1.0	-2.5	- 2.5	- 1.8	- 4.2	- 2.3
@ 20° Elevation:	+1.5	-0.5	- 1.1	+ 0.7	- 2.9	+ 0.4
@ 30° Elevation:	+2.4	+1.0	+ 0.5	+ 1.7	- 2.0	+ 2.3
@ 60° to 90° Elevation:	>+3.3	>+2.7	> 3.6	> 2.1	> 0.9	> 3.2
BEAM WIDTH (3dB):	129 °	98 °-106 °	103 °	146 °	108 °	74 °
AXIAL RATIO @ Zenith:	2 dB		2 dB			
POWER HANDLING:	30 W		1 Watt			
LIGHTNING PROTECTION:	DC GROUNDING		DC GROUNDING			
FILTER (REJ. @1616 MHz):			> 60 dB			
LNA GAIN:	N/A		(33.0+/-1.0) dB			
LNA P 1dB Out:	N/A		+16 dBm			
LNA NOISE FIGURE:	N/A		2.8 dB (Filter loss is Included)			
VOLTAGE/CURRENT:	N/A		(+2.8 TO +28) Volts DC / (30 TO 50) mA			

MECHANICAL:

SIZE:	WIDTH: 2.20 in. [55.88 mm], LENGTH: 5.026 in [127.66 mm], HEIGHT: 0.721 in. [18.31 mm]
WEIGHT:	8.0 oz. (226 g)
FINISH:	SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5441
MATERIAL:	6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, AND SKYDROL RESISTANCE, FIRE RETARDANT
CONNECTOR:	GPS: SMA FEMALE, IRIIDIUM: TNC FEMALE (OPTION: SMA, TNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX, or Cable)
MOUNTING:	FLAT FIXED MOUNT; O-RING & 4 x 10-32 MOUNTING SCREWS PROVIDED

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]
 ALTITUDE: 70,000 ft.
 VIBRATION: > 30 G's
 LEAKAGE: HERMETICALLY SEALED

FEDERAL & MILITARY SPECIFICATIONS:

DESIGN TO: FAA TSO-C144, DO-160D, DO-228, MIL-C-5541,
MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

4	MOUNTING SCREW: (10-32, 1")	MS24693C276	-	-	
1					
1	O-RING	2-038-N756-75	-	-	
-2	-1	DESCRIPTION	PART NO	MATERIAL	FINISH
QUANTITY REQD		PARTS LIST			

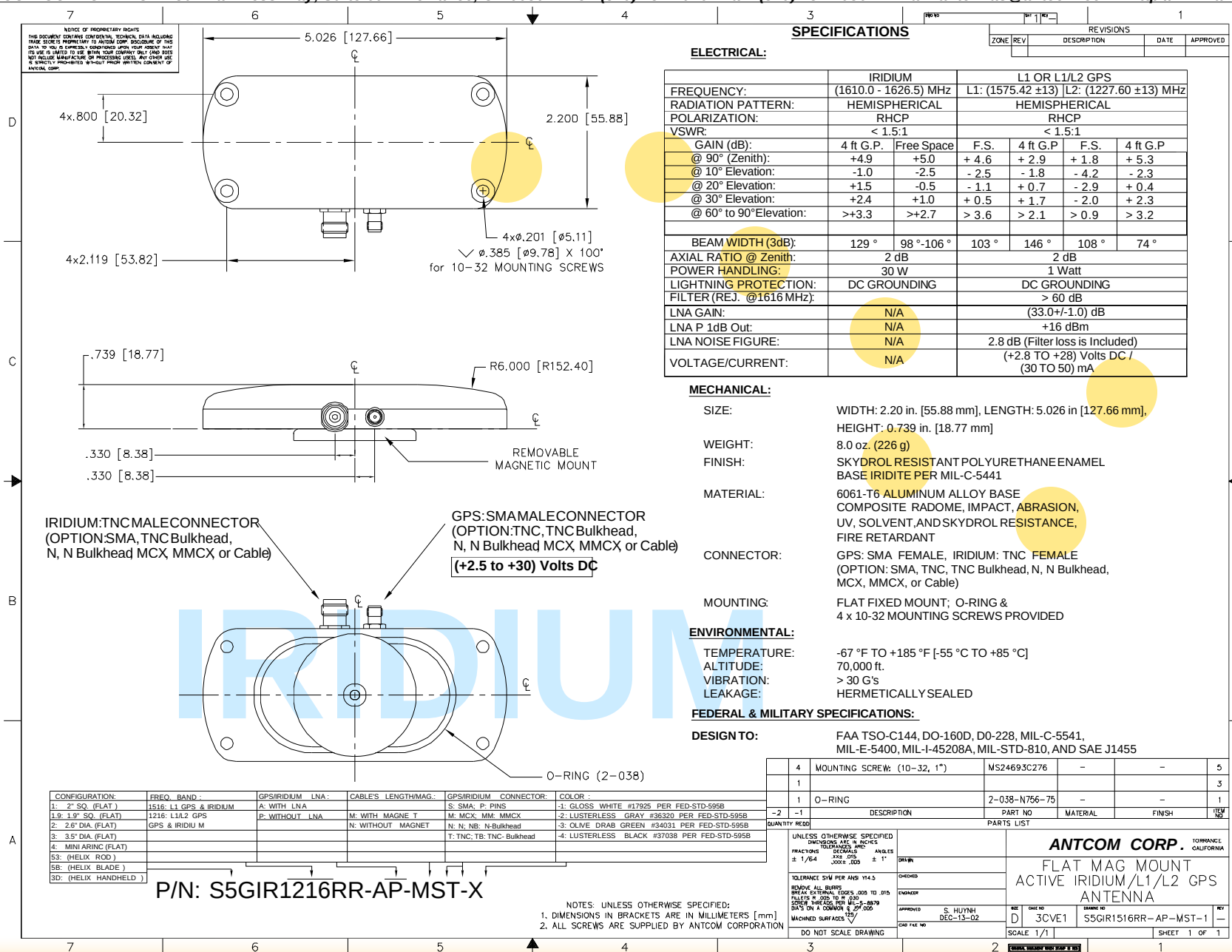
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES 1/16 0.0625 30.000 30° 31° TOLERANCE SUR PER ANG YLARS FRACTIONS DECIMALS ANGLES 1/16 0.0625 30.000 30° 31° UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES 1/16 0.0625 30.000 30° 31° TOLERANCE SUR PER ANG YLARS FRACTIONS DECIMALS ANGLES 1/16 0.0625 30.000 30° 31° UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES 1/16 0.0625 30.000 30° 31° TOLERANCE SUR PER ANG YLARS FRACTIONS DECIMALS ANGLES 1/16 0.0625 30.000 30° 31°	ANTCOM CORP. TORMAHO CA 91354 FLAT MAG MOUNT ACTIVE IRIDIUM/L1/L2 GPS ANTENNA DATE REC 12-15-92 DATE REC 12-15-92 DATE REC 12-15-92 DATE REC 12-15-92 DATE REC 12-15-92 DATE REC 12-15-92	SHEET 1 OF 1
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ISO9001

Active GPS & (IRIDIUM /Inmarsat or Thuraya) Antenna:**(5.03"x2.08"x0.69"), Magnetic Mount, Side Connector, P/N: S5GIR1516RR-AP-MST-X****With BNC, TNC, SMA, N Connector Options.**

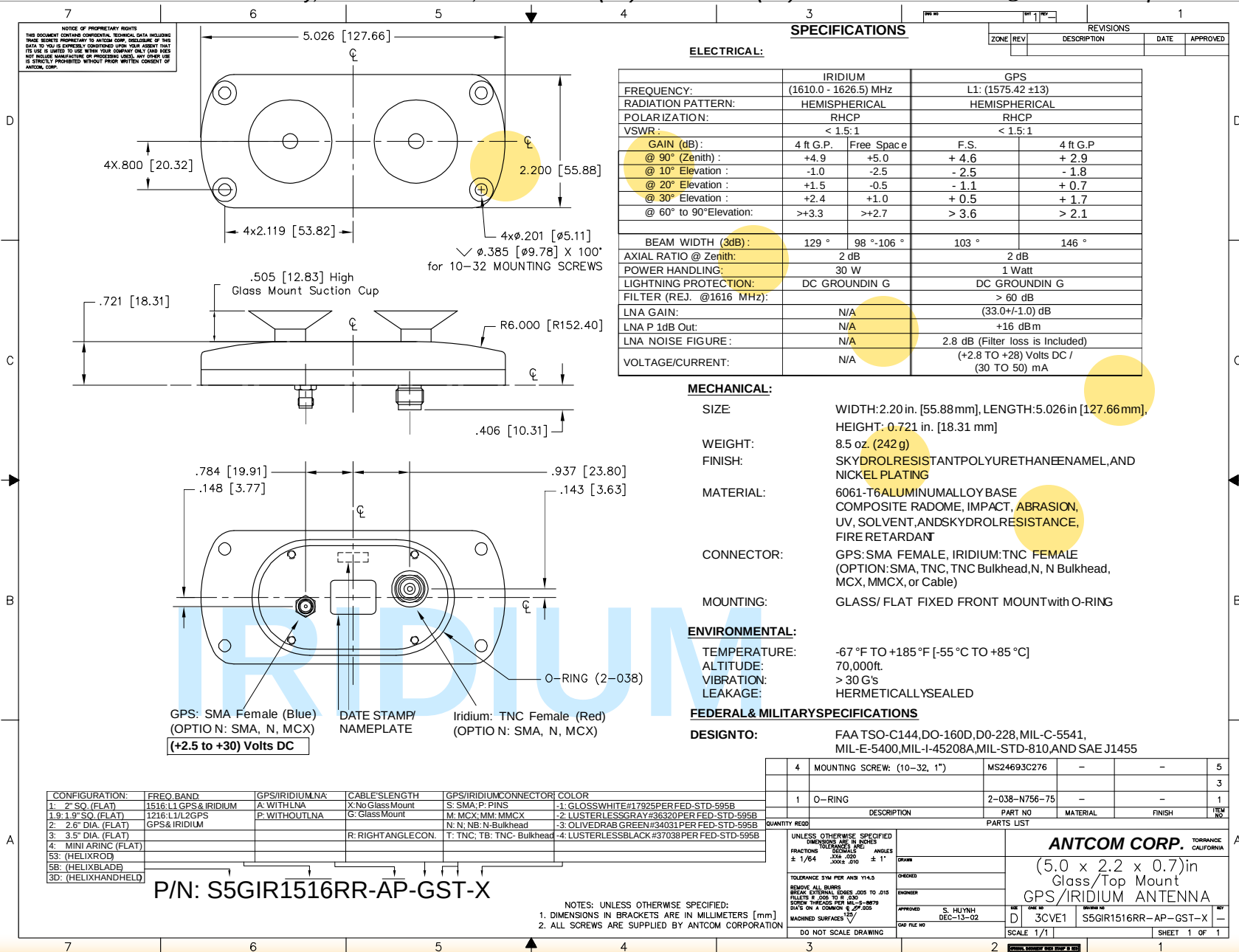
ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501 . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . http://www.antcom.com



Active GPS & (IRIDIUM/Inmarsat or Thuraya) Antenna:
(5.0"x2.2"x0.7"), Glass/Top Mount, P/N: S5GIR1516RR-AP-GST-X
With BNC, TNC, SMA, N Connector Options.



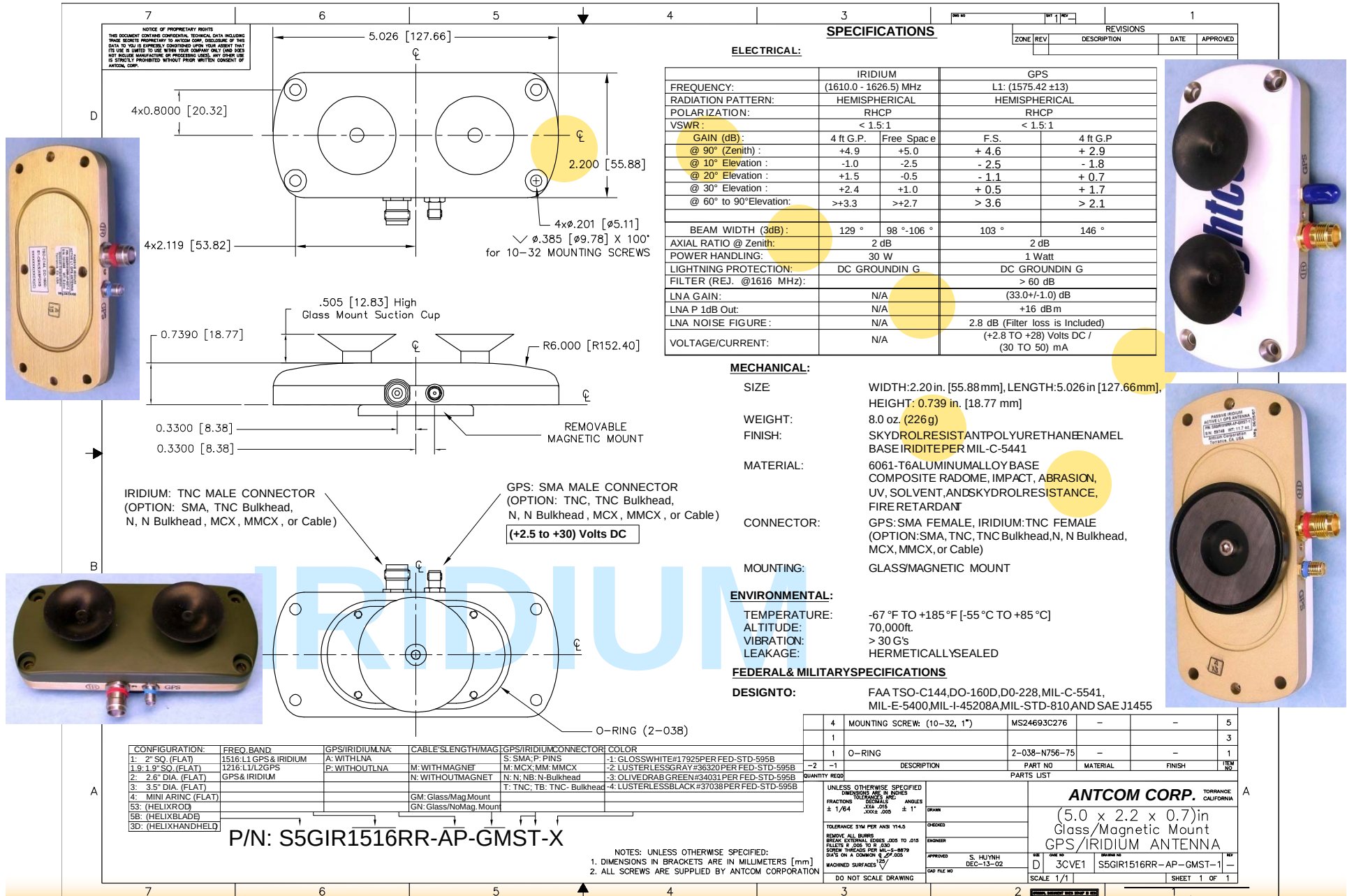
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Active GPS & (IRIDIUM/Inmarsat or Thuraya) Antenna:
(5.0"x2.2"x0.7"), Glass/Magnetic Mount, P/N: S5GIR1516RR-AP-GMST-X
With BNC, TNC, SMA, N Connector Options.



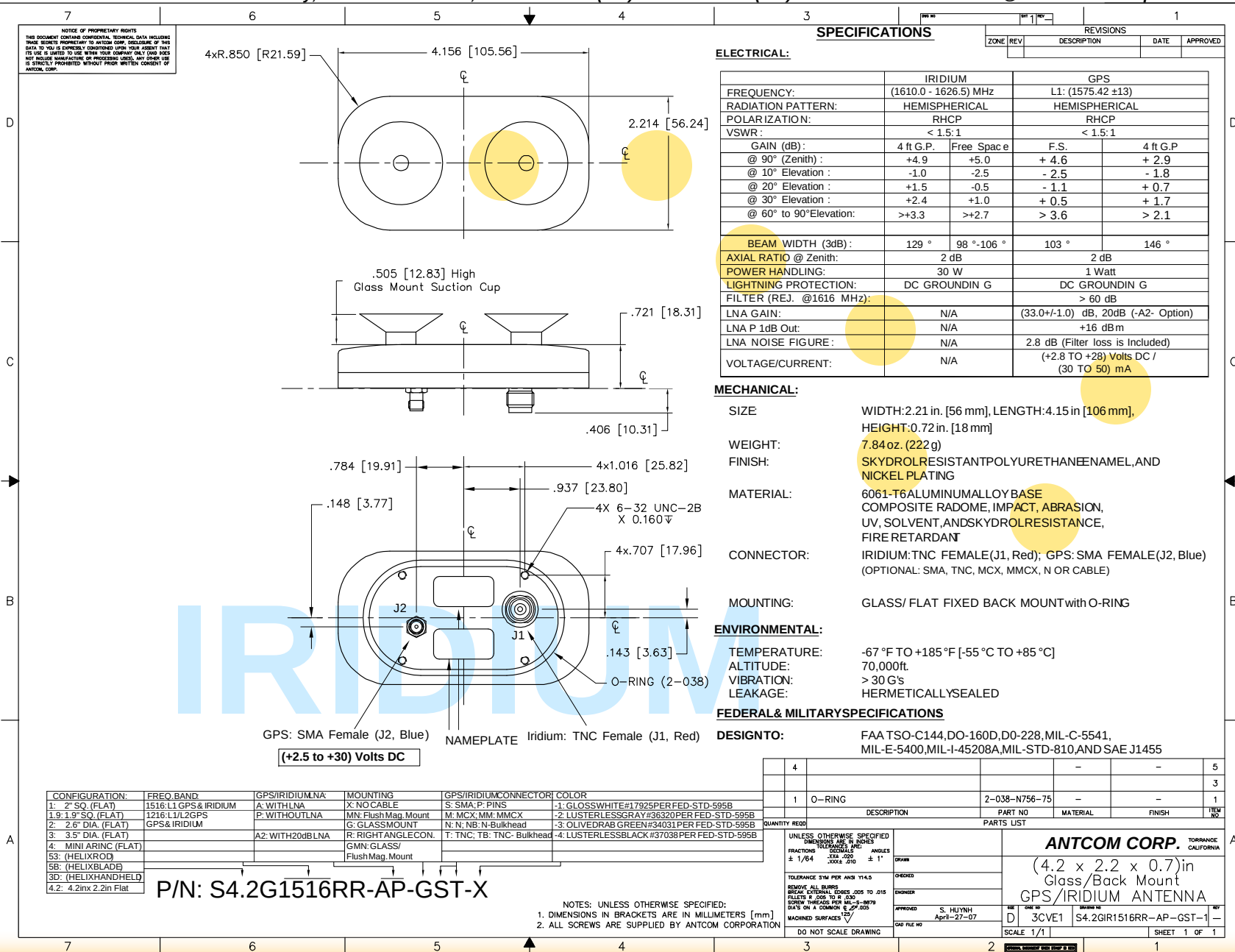
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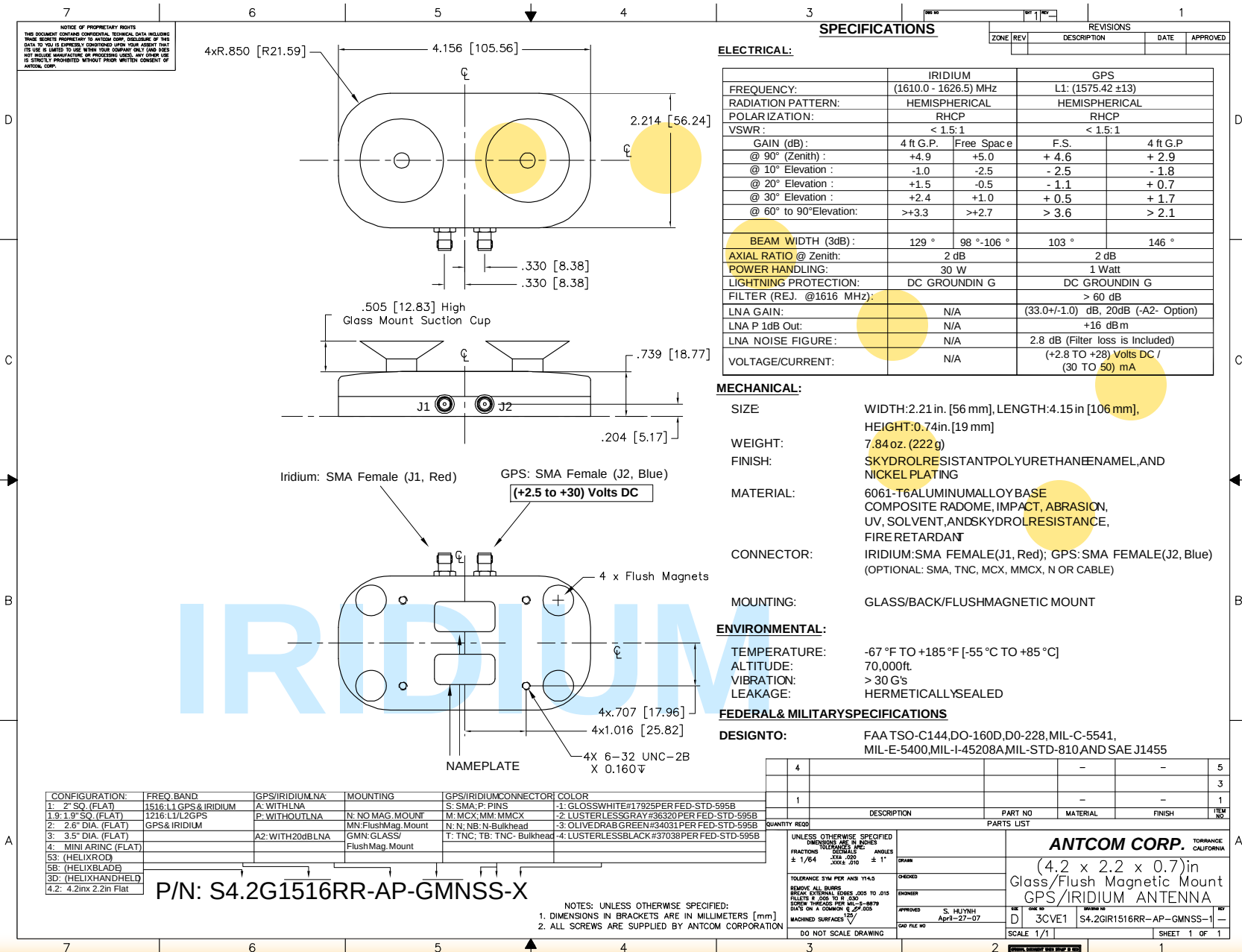


Active GPS & (IRIDIUM/Inmarsat or Thuraya) Antenna:
(4.2"x2.2"x0.7"), Glass/Back Mount, P/N: S4.2GIR1516RR-AP-GST-X



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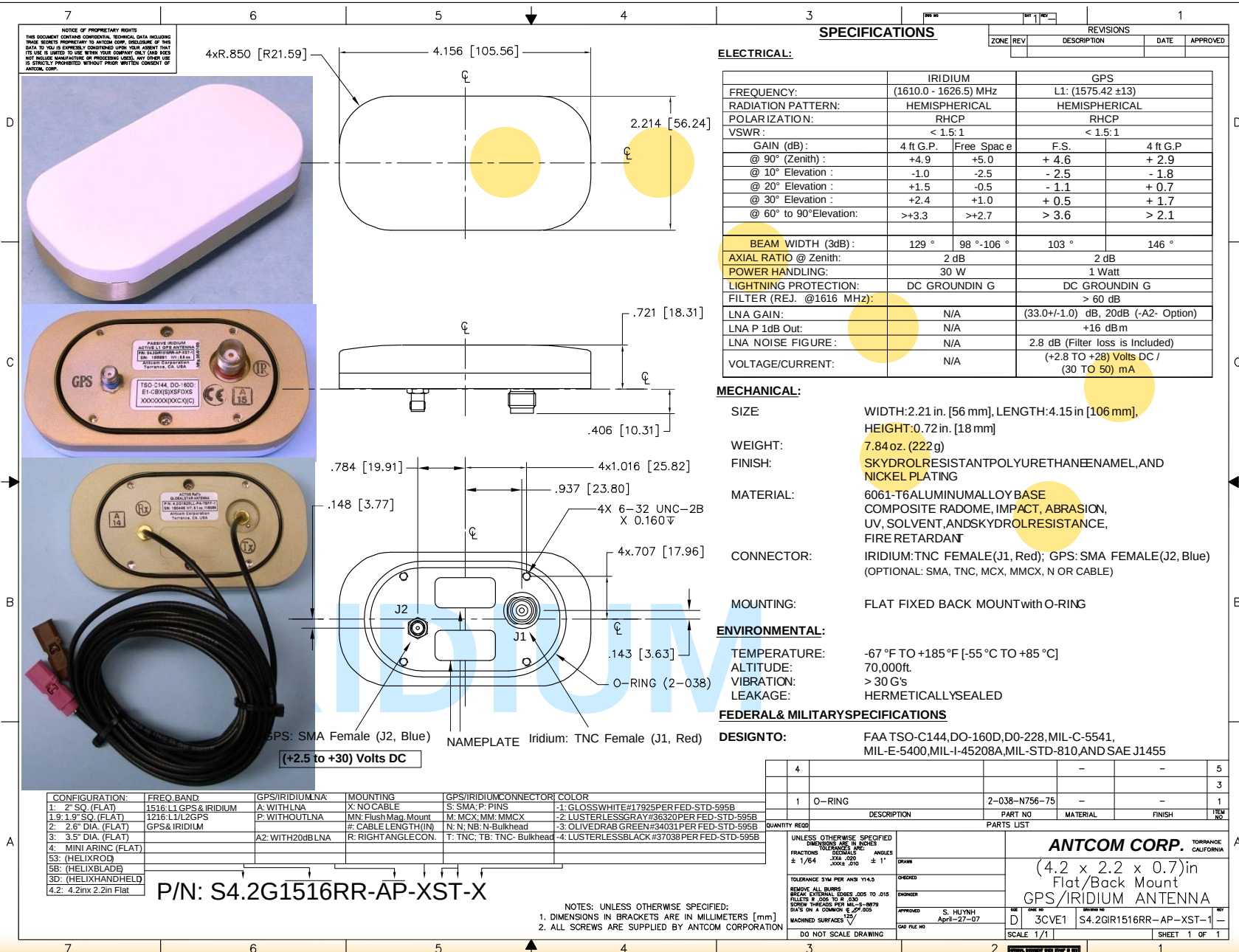


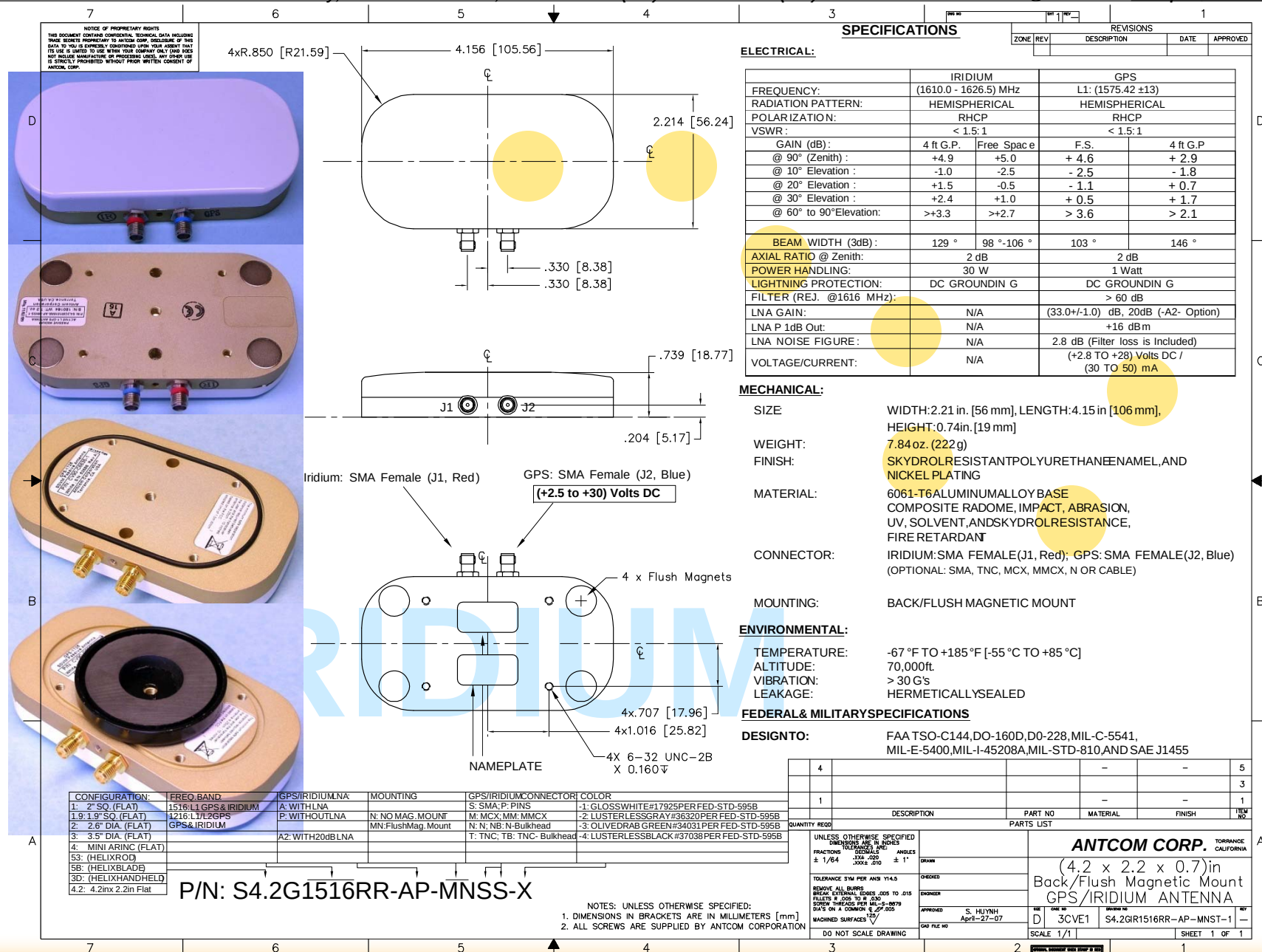


Active GPS & (IRIDIUM/Inmarsat or Thuraya) Antenna:
(4.2"x2.2"x0.7"), Back Mount, P/N: S4.2GIR1516RR-AP-XST-X



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Active L1/L2 GPS, Iridium, & Wi-Fi Blade Antennas 4.6" Tall Blade Configurations



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Active L1/L2 GPS Helix Antenna,
P/N: 5B1215A-XT-3:



L-Band Boeing Foot Print
Hermetically Sealed, Designed for
Harsh Environment Applications.

Connector is Available in SMA,
MCX, MMCX, TNC, TNC-B, N, or
N-Bulkhead (See Drawing)



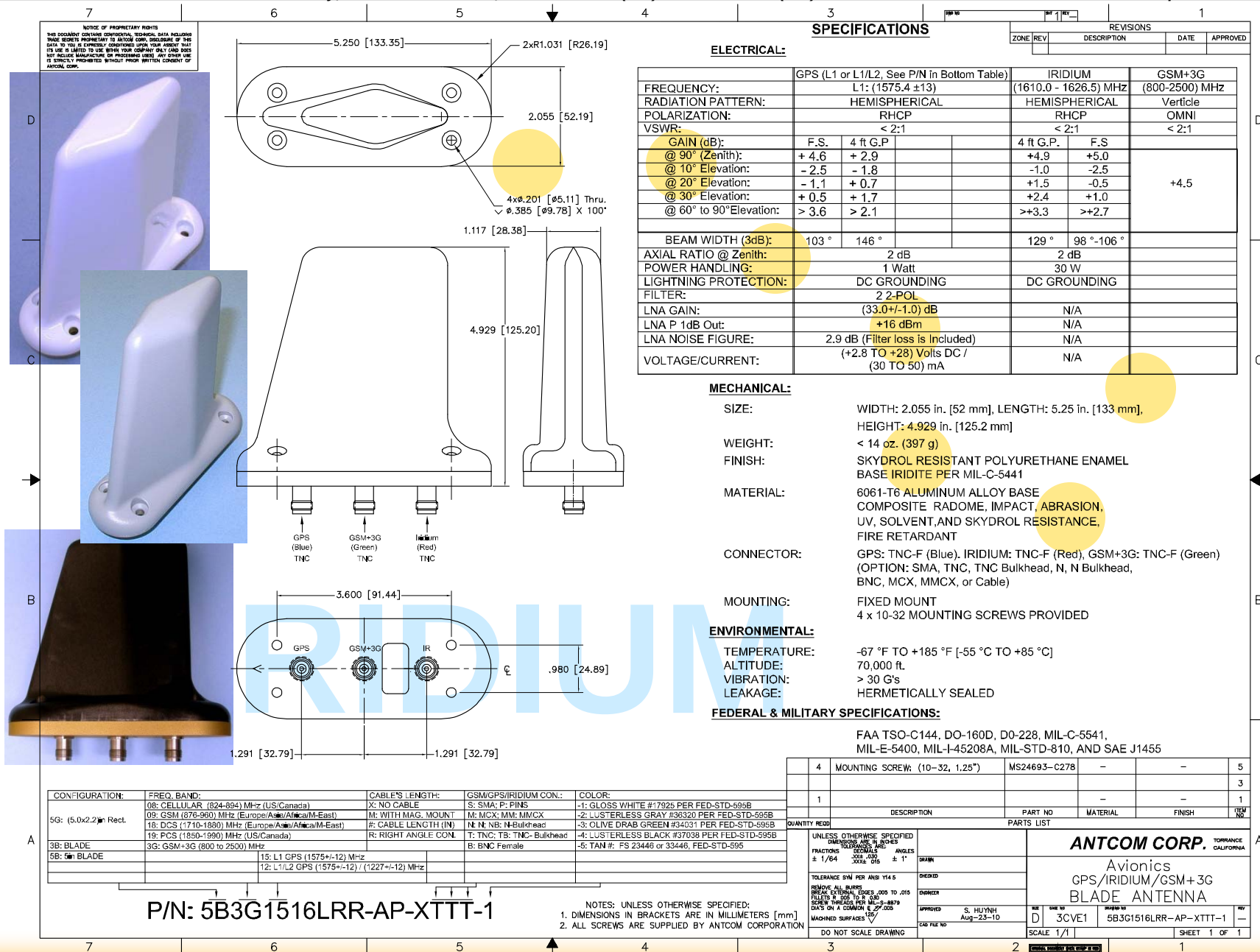
Active L1/L2 GPS and
Iridium Helix Antenna,
P/N: 5B1216RR-AP-XT-3:



Active L1/L2 GPS and
Iridium Helix Antenna,
Wi-Fi
P/N: 5B121625RRV-AP-XT-3:



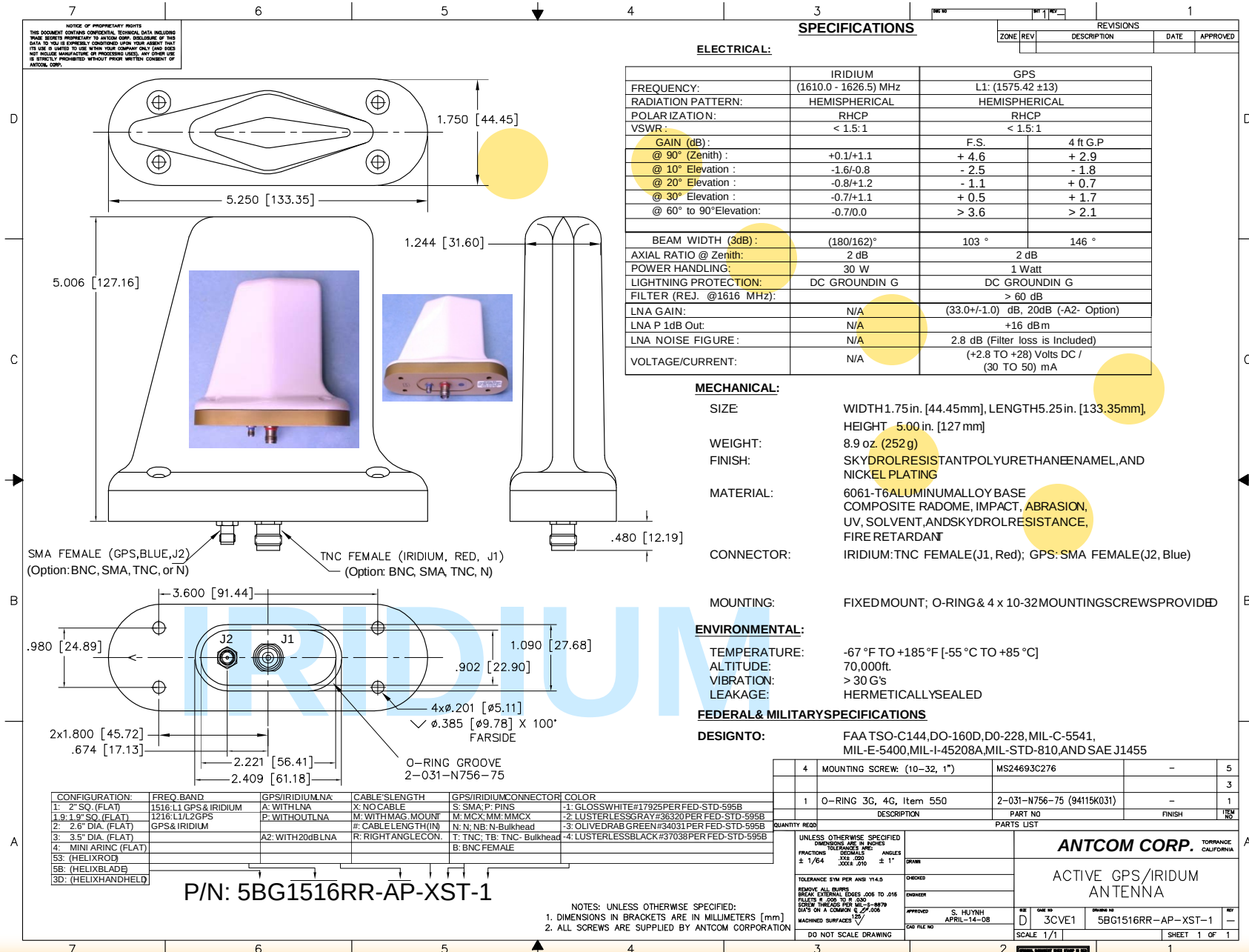
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Active L1 GPS & (IRIDIUM/Inmarsat) Antenna:
4.6in Tall, Blade Configuration, Top Mount, P/N: 5BG1516RR-AP-XTT-X,
With BNC, TNC, SMA, N Connector Options.



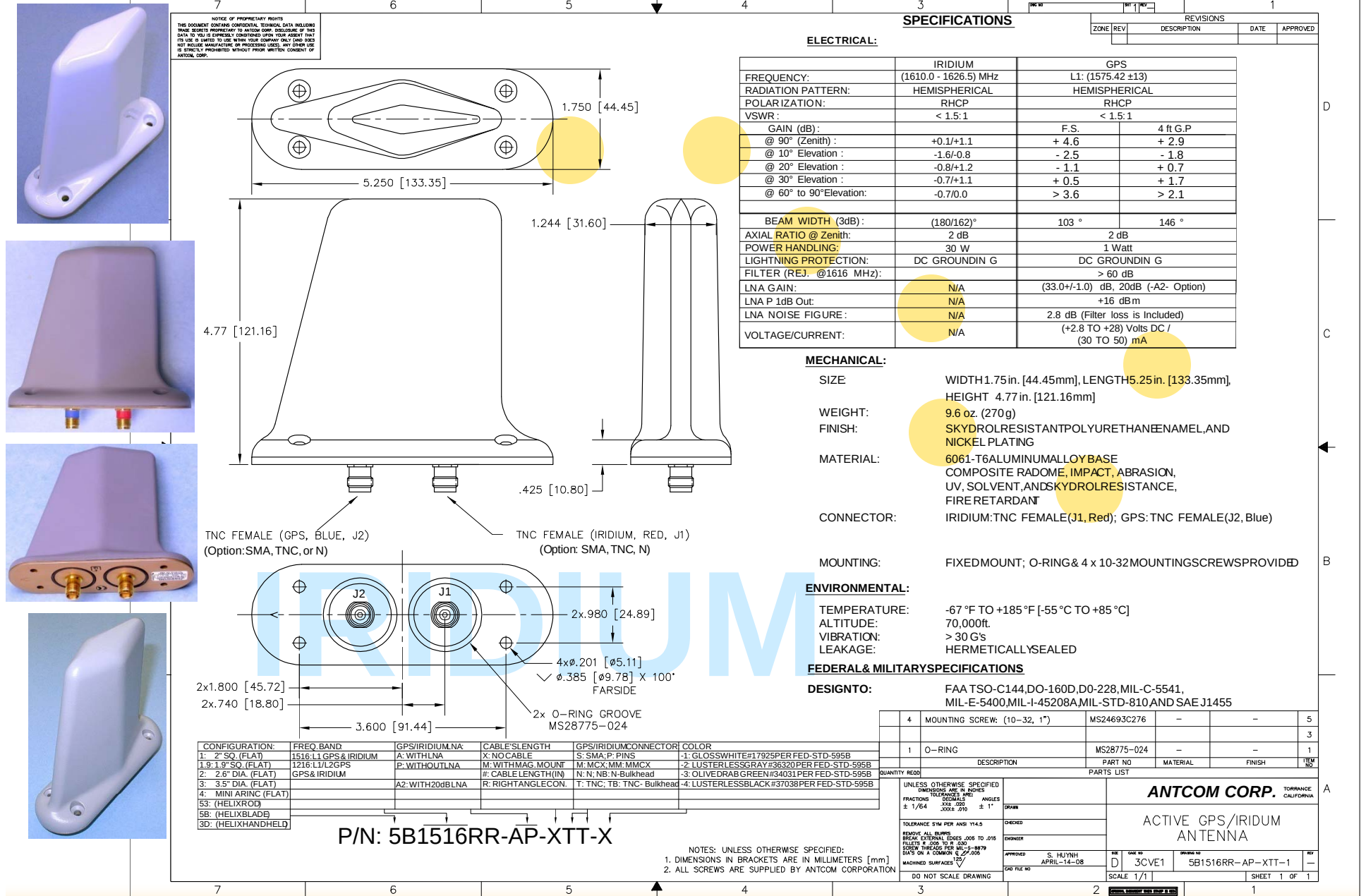
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Active L1 GPS & (IRIDIUM/Inmarsat) Antenna: 4.6in Tall, Blade Configuration, Top Mount, P/N: 5B1516RR-AP-XTT-X



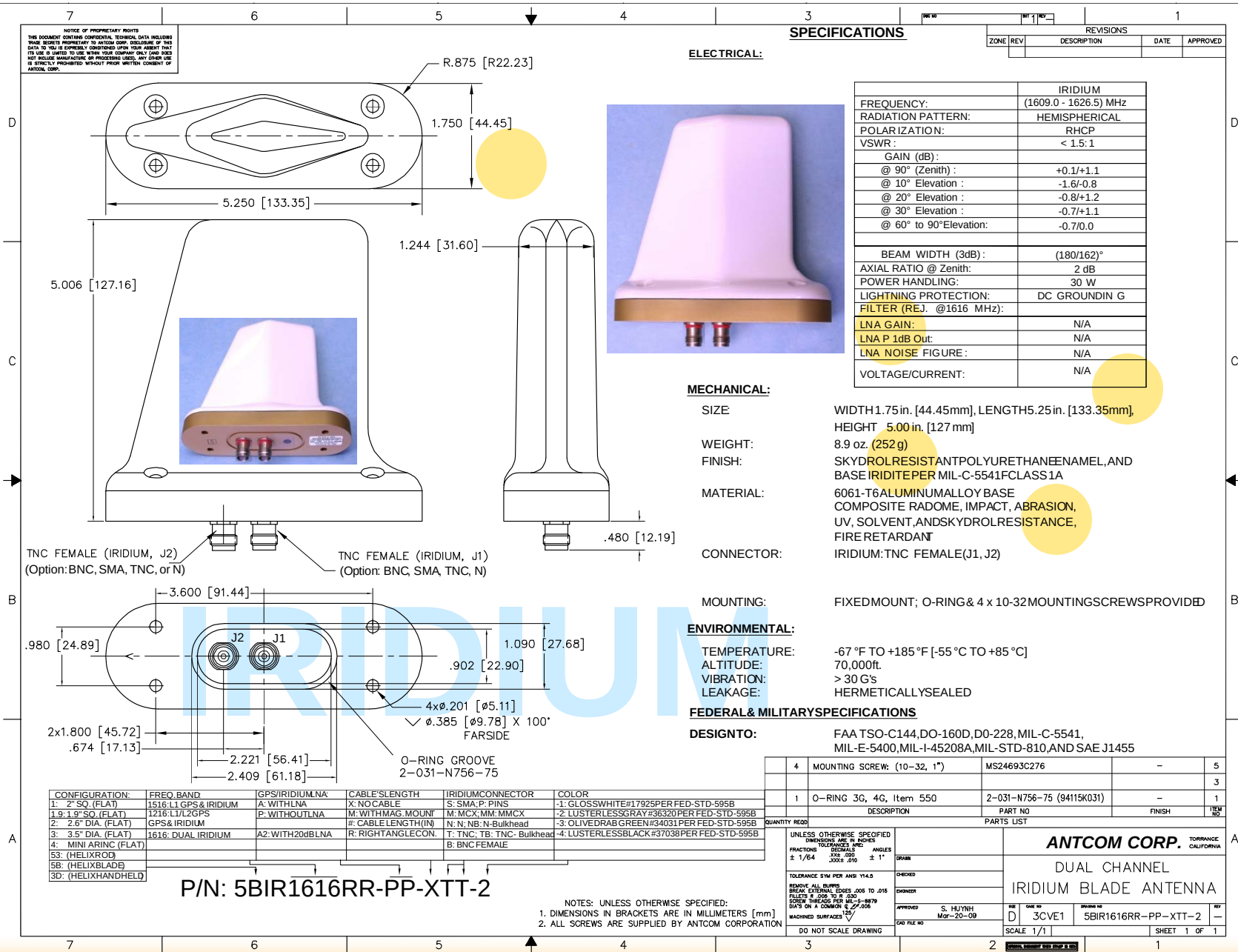
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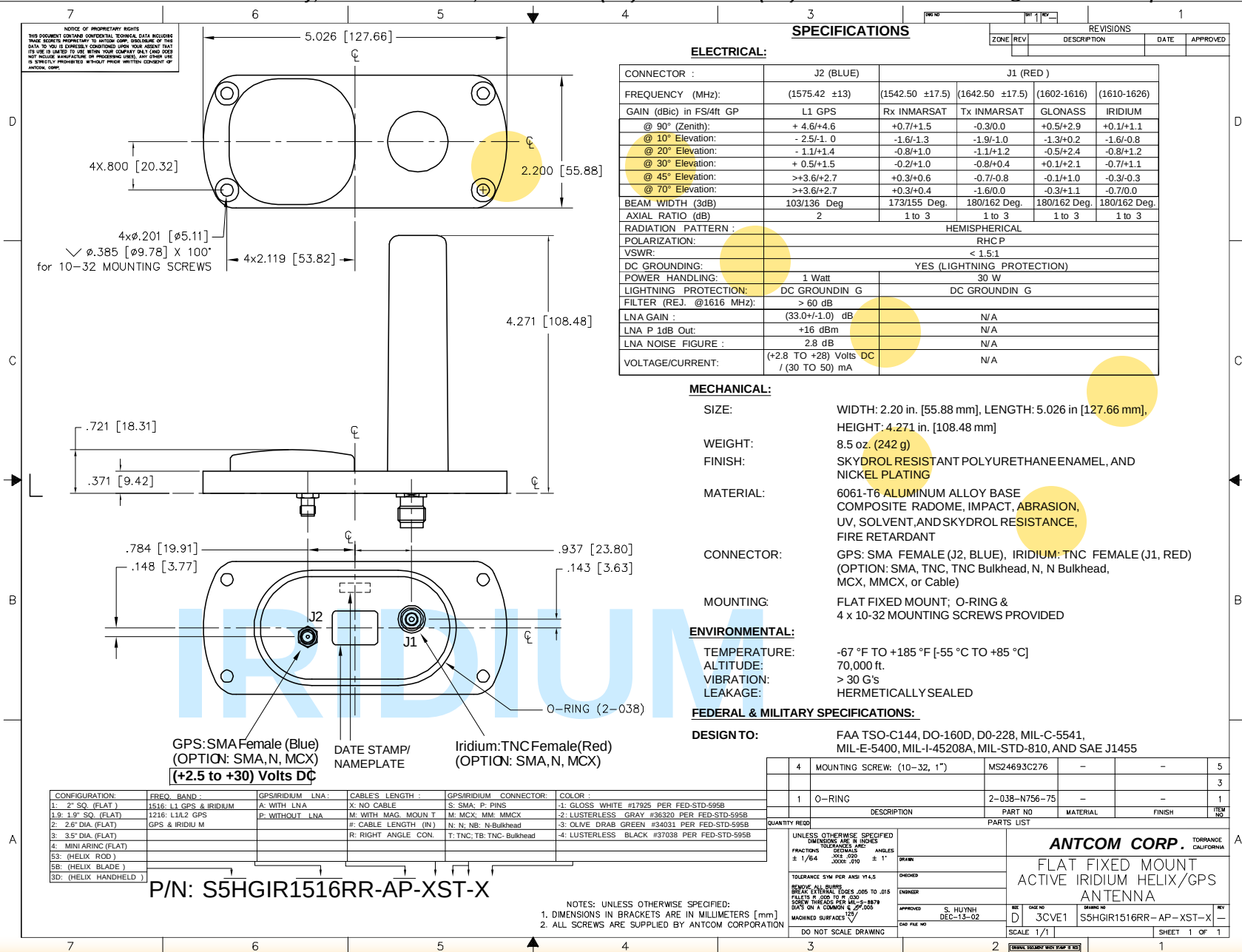
Dual Channel IRIDIUM/Inmarsat Antenna: 5in Tall, Blade Configuration, Top Mount, P/N: 5BIR1616RR-PP-XTT-X, With BNC, TNC, SMA, N Connector Options.



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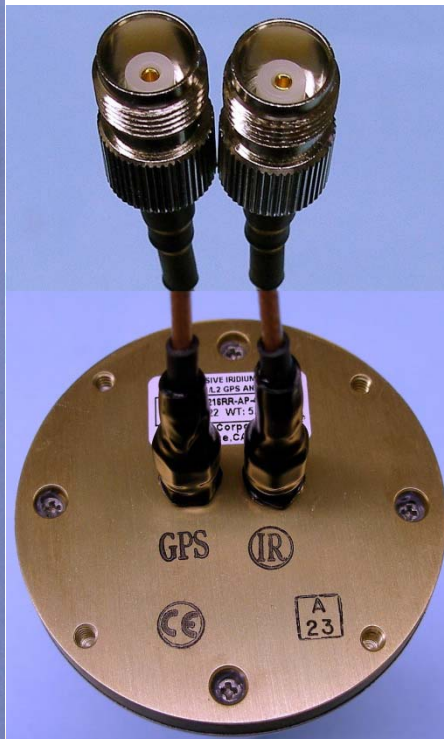
Iridium Helix / Active GPS Antenna, 2.6" Diameter x 4.8" Tall, Pipe/Flat Mount Configuration



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**Iridium Helix /
Active L1/L2 GPS Antenna,
P/N: 52G1216RR-AP-4TT-1:
2.6" Diameter x 4.8" Tall,
Pipe/Flat Mount Configuration**



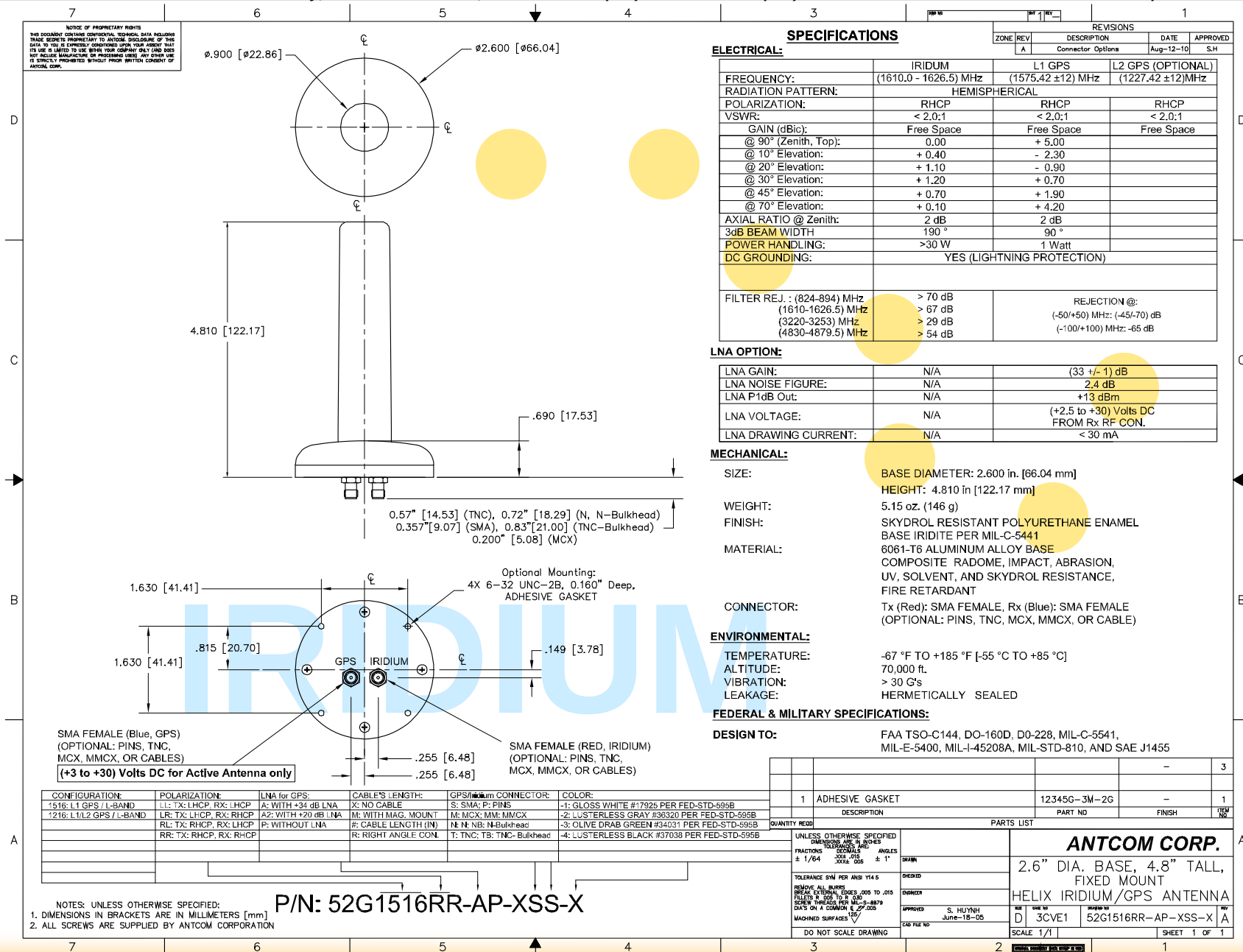
**Iridium Helix / Active L1 GPS Antenna,
P/N: 52G1516RR-A-XS-1:
2.6" Diameter x 4.8" Tall,
Pipe/Flat Mount Configuration**

**Hermetically Sealed, Designed for Harsh
Environment Applications.**

**Connector is Available in SMA, MCX, MMCX,
TNC, TNC-B, N, or N-Bulkhead (See Drawing)**



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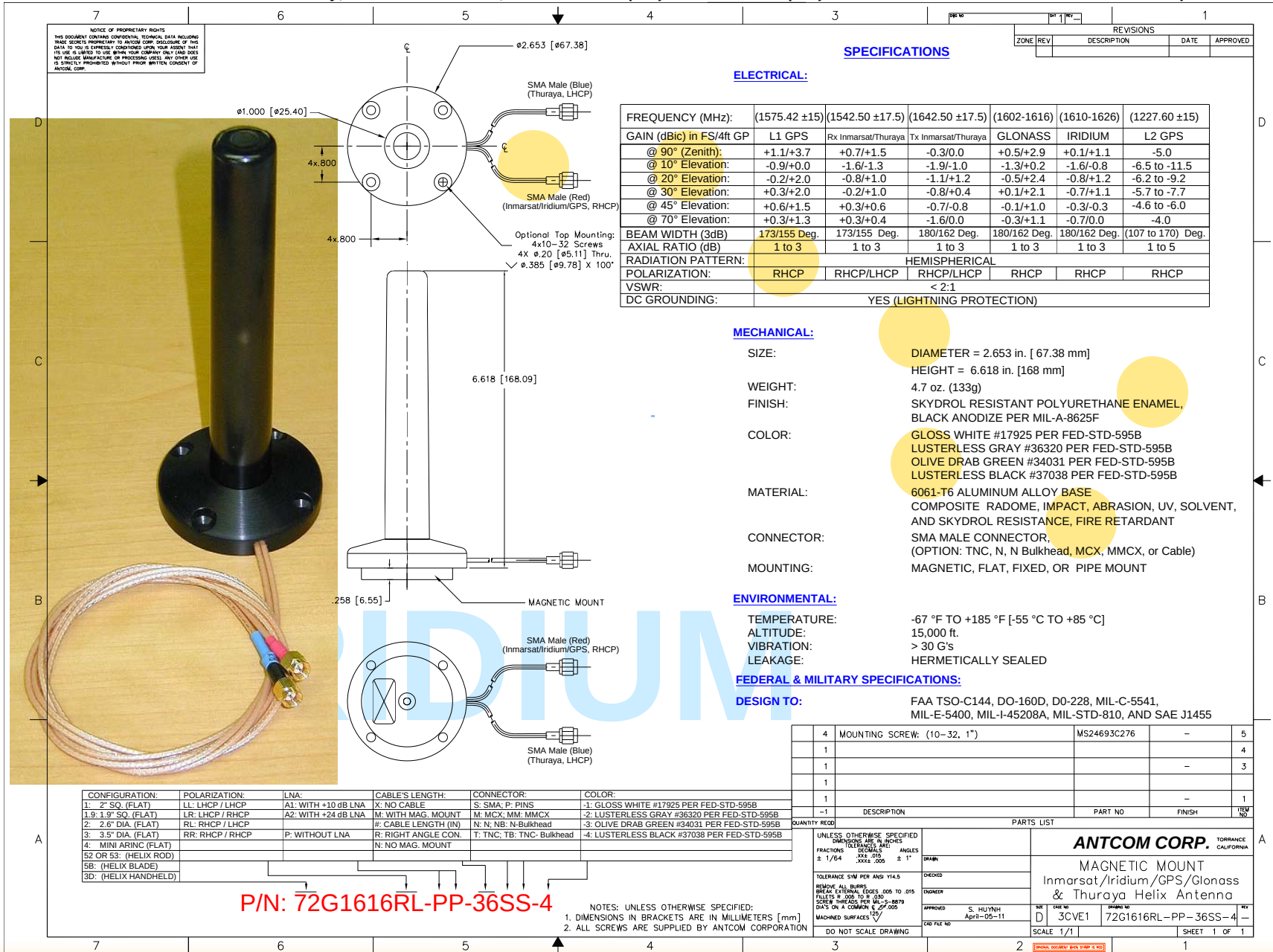
**Hermetically Sealed, Designed for Harsh
Environment Applications.**

**Connector is Available in SMA, MCX, MMCX,
TNC, TNC-B, N, or N-Bulkhead (See Drawing)**

2-Port RHCP-Inmarsat/Iridium/GPS & LHCP-Thuraya Antenna, P/N: 72G1616RL-PP-36SS-4, 2.6in Diameter Base x 6.6in Tall, Magnetic Mount, Side Cable Configuration



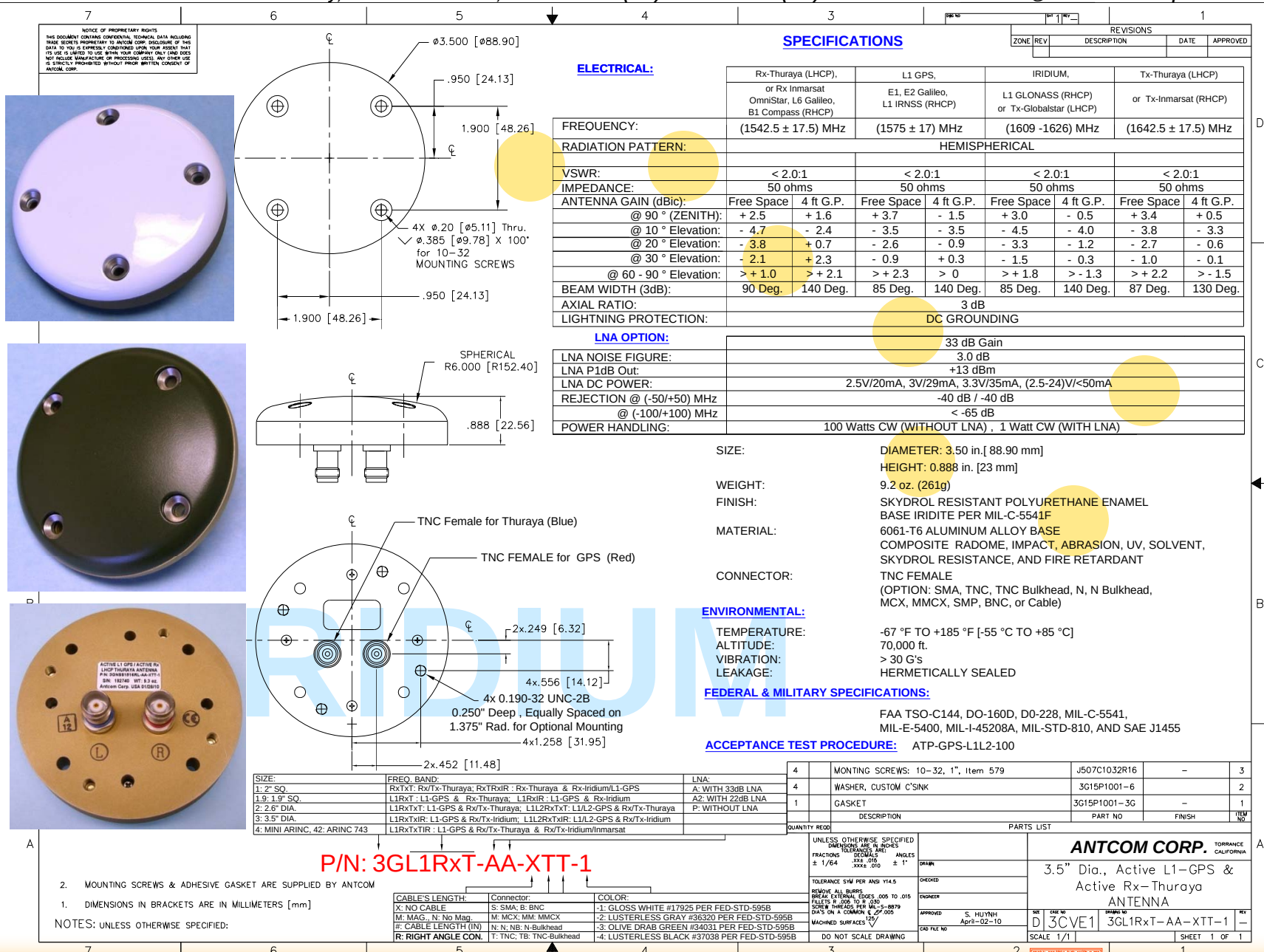
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**New 2-Port (Active L1 GPS) & (Active Rx-Thuraya) Antenna,
P/N: 3GL1RxT-AA-XTT-1**

3.5" Diameter, Flat, Back Mount, Bottom Connector Configuration
2.6in Dia., Mini-Arinc, & Arinc-743 Versions are also available

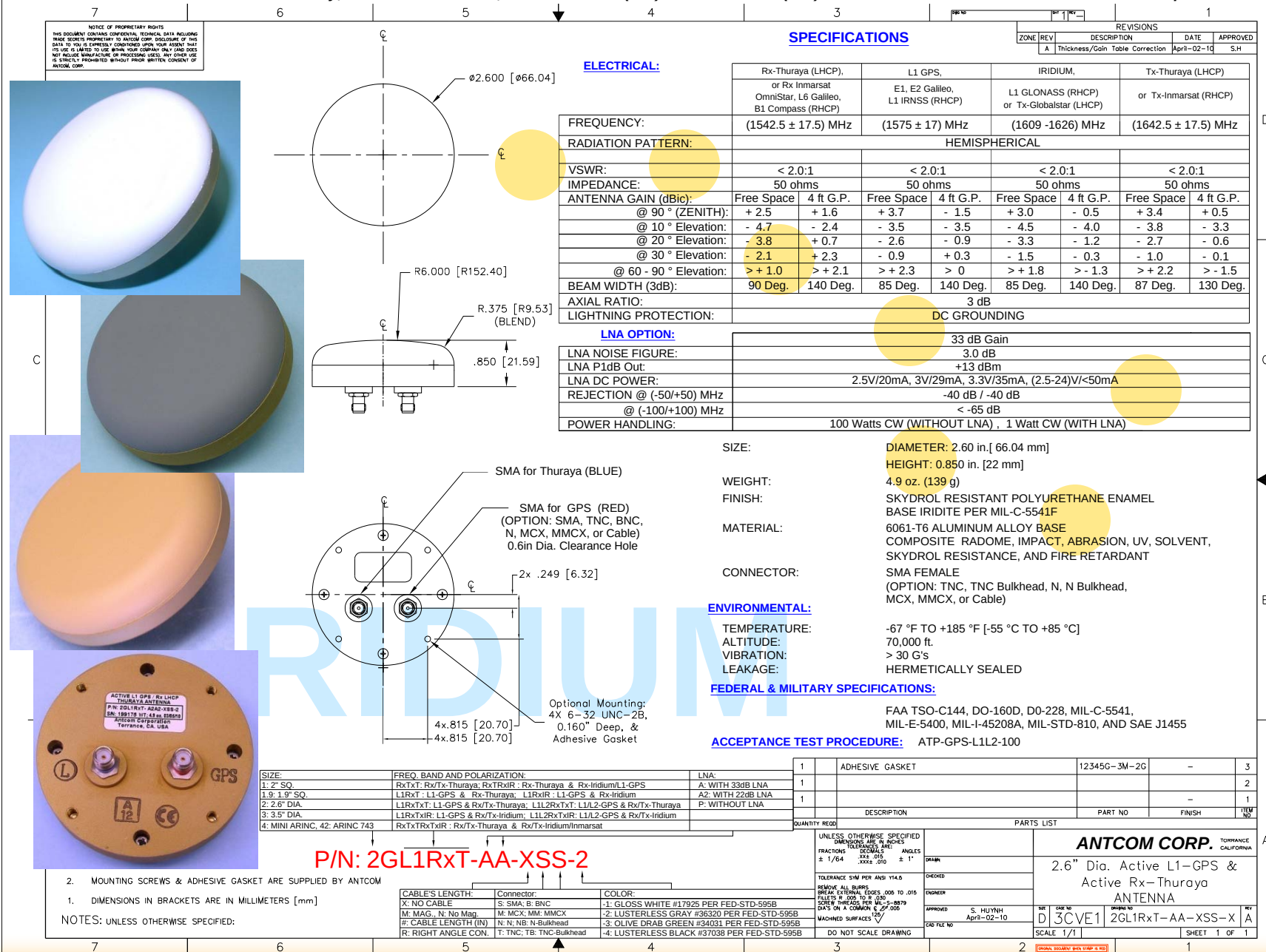
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New 2-Port (Active L1 GPS) & (Active Rx-Thuraya) Antenna,
P/N: 2GL1RxT-AA-XSS-X

2.6" Diameter, Flat, Back Mount, Bottom Connector Configuration
3.5in Dia., Mini-Arinc, & Arinc-743 Versions are also available

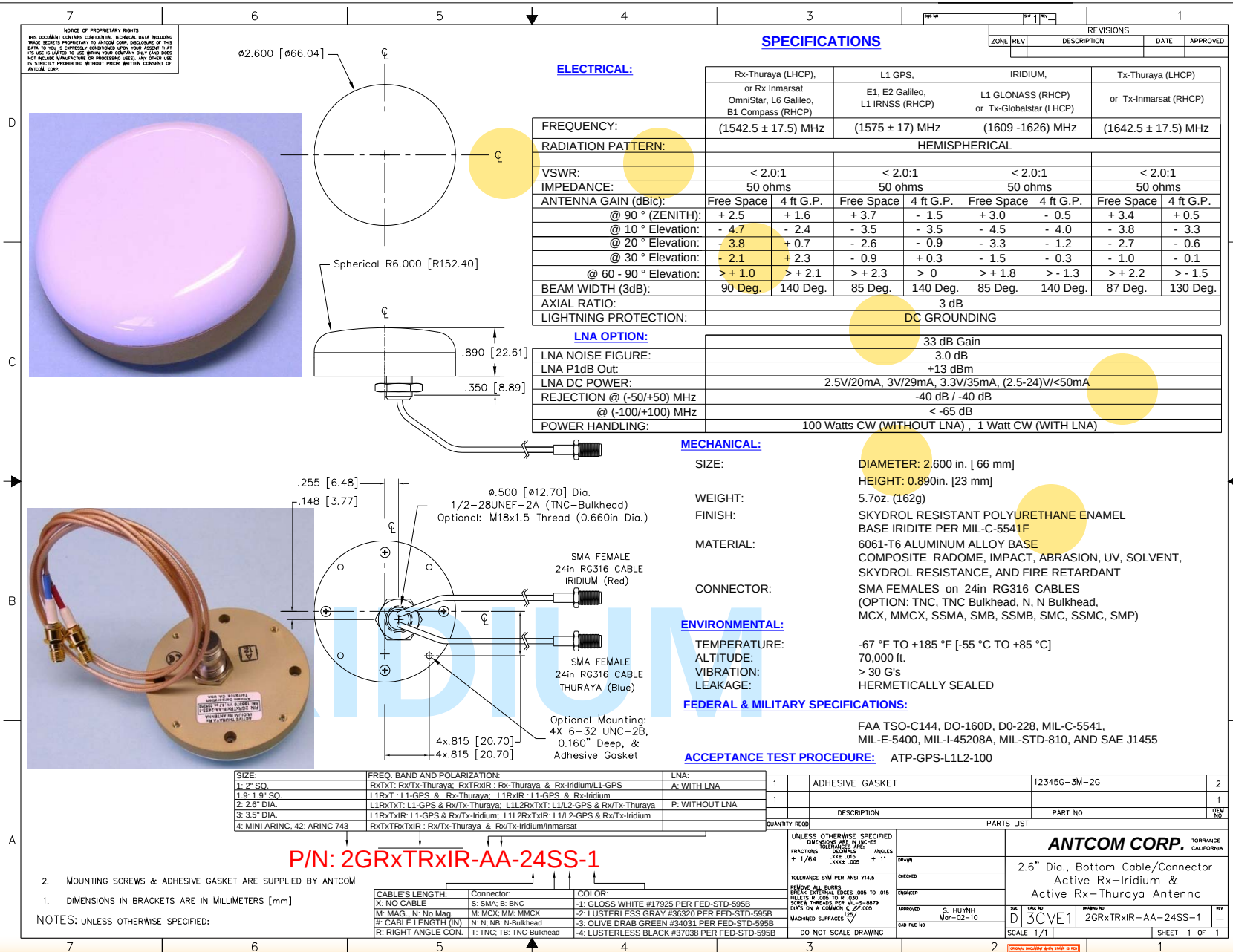
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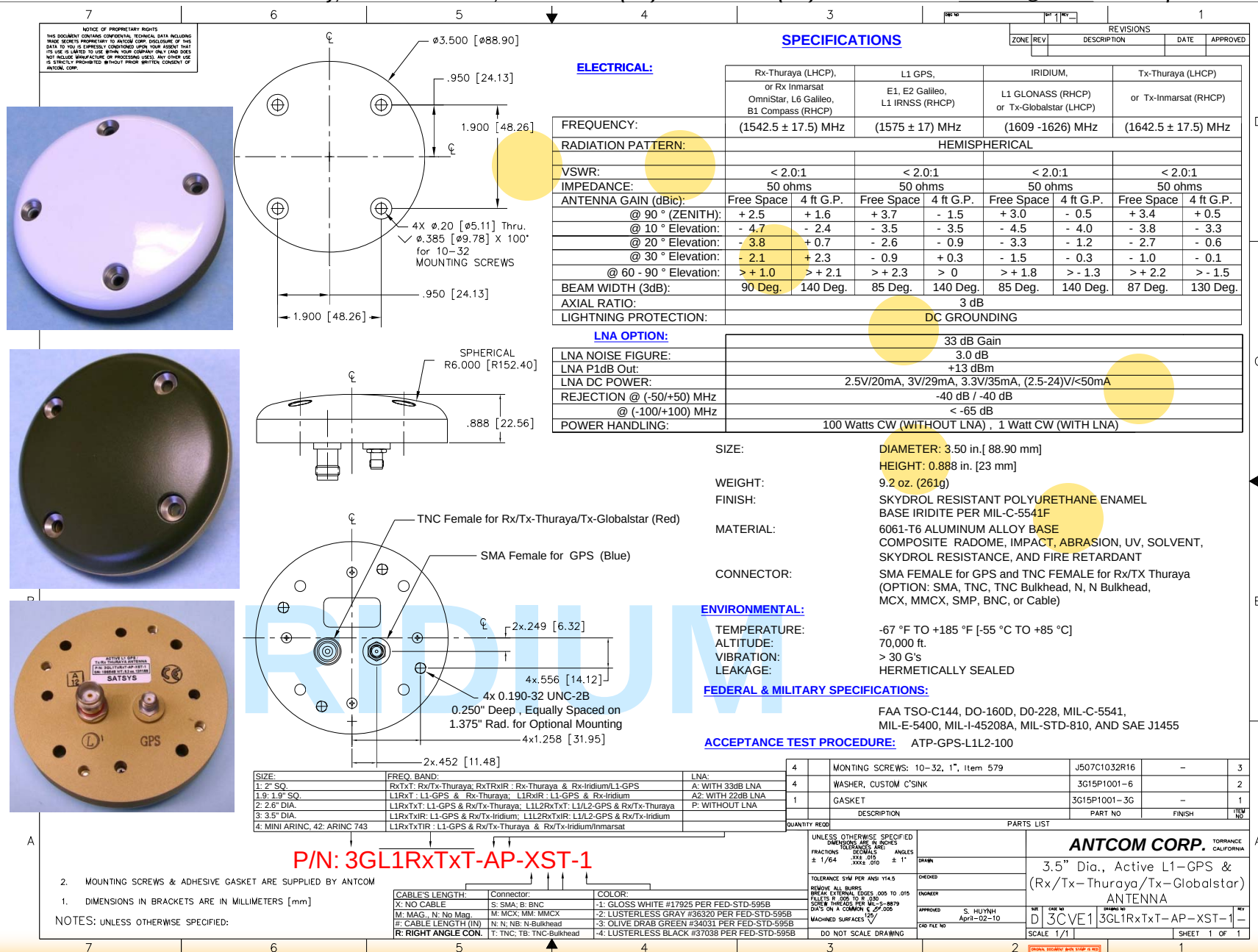
New 2-Port (Active Rx-Thuraya) & (Active Rx-Iridium/GPS) Antenna, P/N: 2GRxTRxIR-AA-24SS-1,

2.6" Diameter, Flat, Back Mount, Bottom Cables Configuration
3.5in Dia., Mini-Arinc, & Arinc-743 Versions are also available

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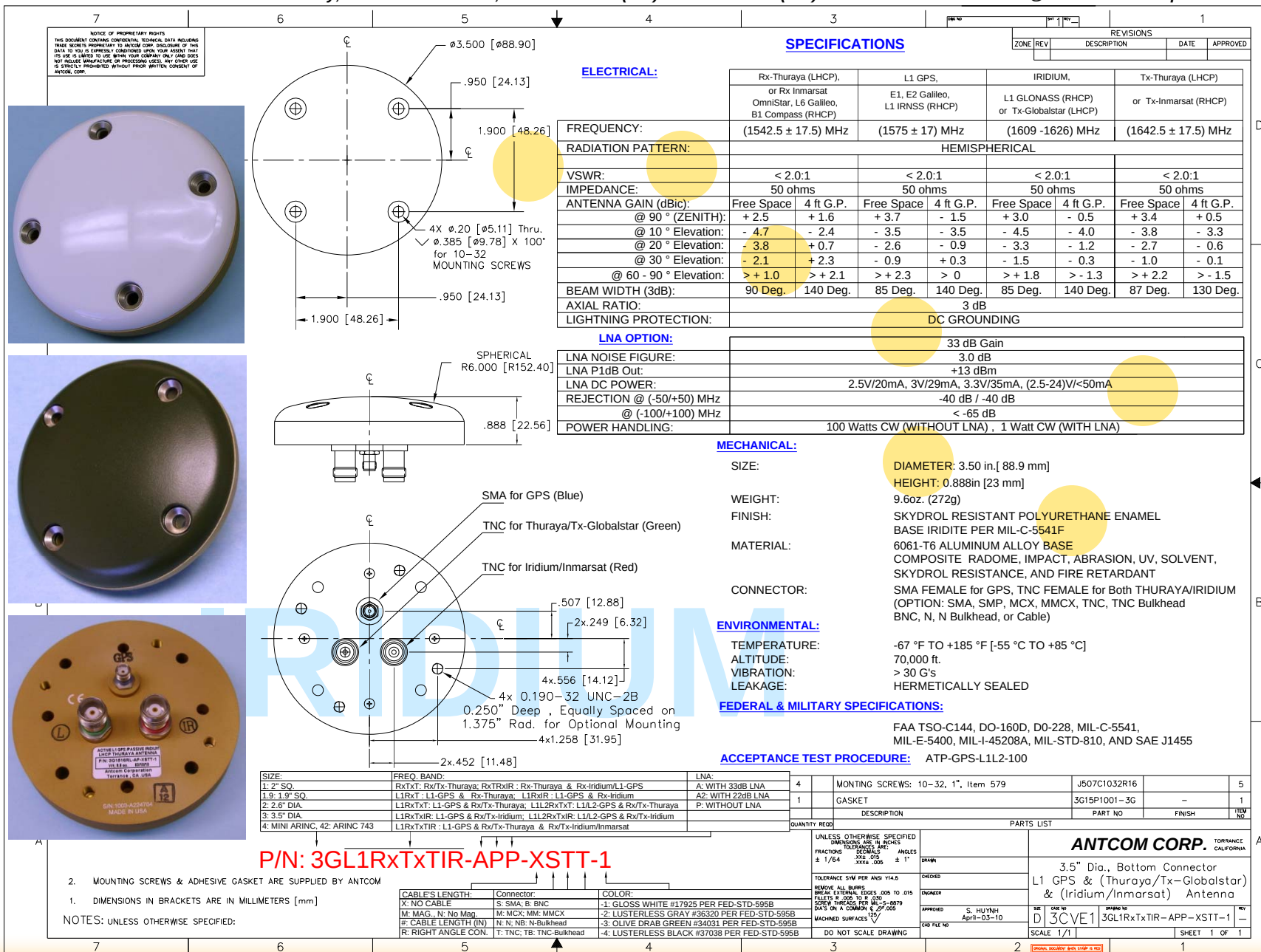




New 3-Port (Active L1-GPS) & (Rx/Tx-Thuraya/Tx-Globalstar) & (Rx/Tx-Iridium/Inmarsat) Antenna,
P/N: 3GL1RxTxTIR-APP-XSTT-X,
3.5" Diameter, Flat, Back Mount, Bottom Connector Configuration
2.6in Dia., Mini-Arinc, & Arinc-743 Versions are also available



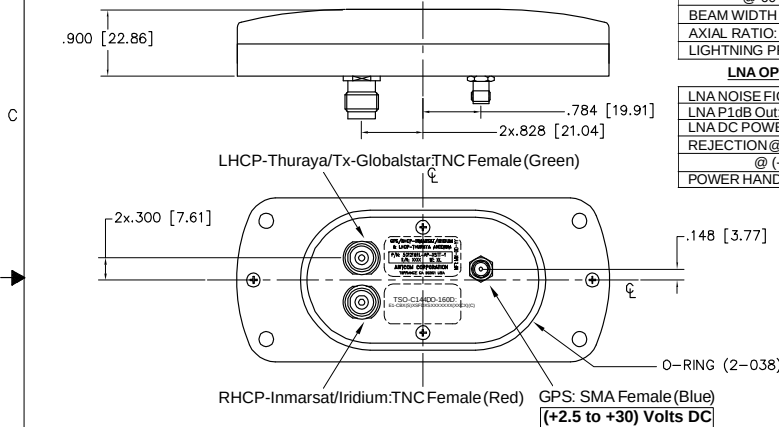
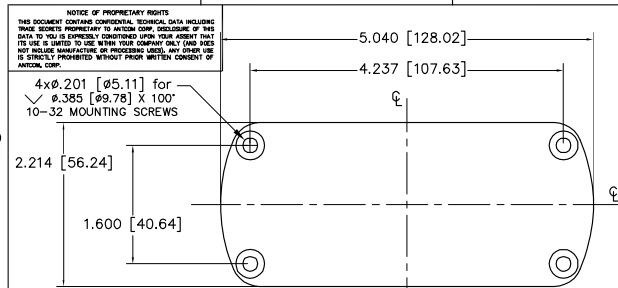
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New 3-Ports (Active L1/L2 GPS), (RHCP-Inmarsat/Iridium) & (LHCP-Thuraya/Tx-Globalstar) Antenna, P/N: 5G1516RL-AP-XSTT-1 (5.04"x2.2"x0.9"), Flat, Top/Pipe Mount, Bottom Connector Configuration



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SPECIFICATIONS

ELECTRICAL:

	L1/L2 GPS				OmniStar, L6 Galileo, B1 Compass(RHCP)		L1 GLONASS(RHCP)		Tx Inmarsat (RHCP)	
	L2		L1		& Rx-Thuraya (LHCP)		& Tx-Globalstar(LHCP)		& Tx-Thuraya (LHCP)	
FREQUENCY:	(1227.60 ±15) MHz		(1575.42 ±15) MHz		(1542.5 ± 17.5) MHz		(1609 -1626) MHz		(1642.5 ± 17.5) MHz	
RADIATION PATTERN:	HEMISPHERICAL									
VSWR:	< 2.0:1									
IMPEDANCE:	50 ohms									
ANTENNA GAIN (dBic):	Free Space	4 ft G.P.	Free Space	4 ft G.P.	Free Space	4 ft G.P.	Free Space	4 ft G.P.	Free Space	4 ft G.P.
@ 90 ° (ZENITH):	+ 1.8	+ 5.3	+ 4.6	+ 2.9	+ 3.3	+ 0.8	+ 6.4	+ 3.9	+ 8.0	+ 4.1
@ 10 ° Elevation:	- 4.2	- 2.3	- 2.5	- 1.8	- 3.9	- 5.0	- 0.7	- 2.3	+ 1.0	- 2.4
@ 20 ° Elevation:	- 2.9	+ 0.4	- 1.1	+ 0.7	- 2.3	- 1.2	+ 0.7	+ 0.9	+ 2.3	+ 0.7
@ 30 ° Elevation:	- 2.0	+ 2.3	+ 0.5	+ 1.7	- 1.1	+ 0.4	+ 1.9	+ 2.2	+ 3.4	+ 1.7
@ 60 - 90 ° Elevation:	> +0.9	> +3.2	> +3.6	> +2.1	> +2.4	> +1.4	> +5.6	> +2.5	> +6.9	> +1.9
BEAM WIDTH (3dB):	108 Deg.	120 Deg.	103 Deg.	146 Deg.	100 Deg.	135 Deg.	92 Deg.	140 Deg.	90 Deg.	130 Deg.
AXIAL RATIO:	2.0 dB		2.0 dB		1.0 dB		1.5 dB		2.0 dB	
LIGHTNING PROTECTION:	DC GROUNDING									
LNA OPTION:										
LNA NOISE FIGURE	33 dB Gain									
LNA P1dB Out:	3.0 dB									
LNA DC POWER:	+13 dBm									
REJECTION @ (-50/+50) MHz	2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24)V/<50mA									
@ (-100/+100)MHz	-40 dB / -40 dB									
POWER HANDLING:	< -65 dB									
	1 Watt CW (WITH LNA)					200 Watts CW				

MECHANICAL:

SIZE: WIDTH: 2.214 in. [56.24 mm], LENGTH: 5.040 in [128.02 mm], HEIGHT: 0.900 in. [22.86 mm]
WEIGHT: 10.4 oz. (295g)
FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
MATERIAL: BASE: IRIDIUM PER MIL-C-5441
 6061-T6 ALUMINUM ALLOY BASE
 COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE AND FIRE RETARDANT
CONNECTOR: SMA FEMALE
 (OPTION: TNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX, or Cable)

ENVIRONMENTAL:

TEMPERATURE: -67° F TO +185° F [-55° C TO +85° C]
ALTITUDE: 70,000 ft
VIBRATION: > 30 G's
LEAKAGE: HERMETICALLY SEALED

FEDERAL & MILITARY SPECIFICATIONS

DESIGN TO: FAA TSO-C144, DO-160D, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-883C, AND SAE J1455

ACCEPTANCE TEST PROCEDURE ATP-GPS-L1L2-100

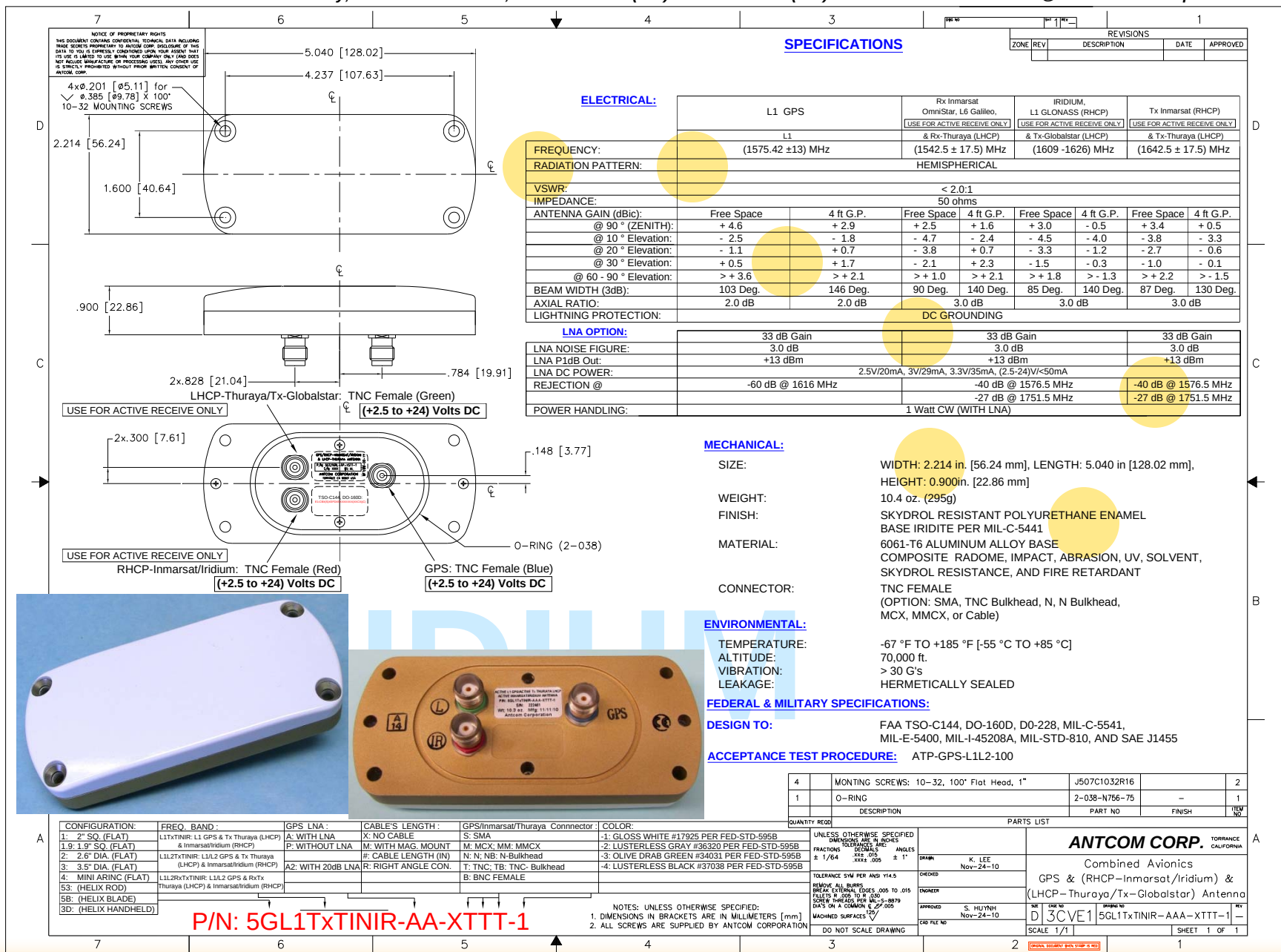
QUANTITY	DESCRIPTION	PART NO	FINISH	ITEM NO
4	MONTING SCREWS: 10-32, 100" Flat Head, 1"	J507C1032R16		2
1	O-RING	2-038-N756-75	-	1

CONFIGURATION:	FREQ. BAND:	GPS LNA:	CABLE'S LENGTH:	GPS/Inmarsat/Thuraya Connector:	COLOR
1: 2" SQ. (FLAT)	1516 L1 GPS-A (Inmarsat/Iridium)	A: WITH LNA	X: NO CABLE	S: SMA	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.9: 1.9" SQ. (FLAT)	& (Thuraya/Tx-Globalstar)	P: WITHOUT LNA	M: WITH MAG. MOUNT	M: MCX, MM: MMCX	-2: LUSTERLESS GRAY #35320 PER FED-STD-595B
2: 2.6" DIA. (FLAT)	1216 L1/L2 GPS & (Inmarsat/Iridium)	A2: WITH 20dB LNA	R: RIGHT ANGLE CON.	N: N, NB: N-Bulkhead	-3: OLIVED RAB GREEN #34031 PER FED-STD-595B
3: 3.5" DIA. (FLAT)	& (Thuraya/Tx-Globalstar)			T: TNC, TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARINC (FLAT)				B: BNC FEMALE	
53: (HELIX ROD)					
5B: (HELIX BLADE)					
3D: (HELIX HANDHELD)					

P/N: 5G1216RL-AP-XSTT-1

NOTES: UNLESS OTHERWISE SPECIFIED:
 1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
 2. ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES		ANTCOM CORP.	
1/16" ± 1/64"	0.005 ± 0.005	Combined Avionics	TORRANCE, CALIFORNIA
TOLERANCE 31M PER ANSI Y14.5		GPS & (RHCP-Inmarsat/Iridium) & (LHCP-Thuraya/Tx-Globalstar) Antenna	
REMOVE ALL SURF. FINISH EXCEPT DIMS TO .015		ENGINEER	
FILL TO .005 TO .010		APPROVED S. HUYN	
SCREW THREADS PER MIL-S-8879		DATE: Feb-17-09	
DATA ON COMPANY 4-24-09		DRAWING NO. 3CVE1	5G1216RL-AP-XSTT-1
MACHINED SURFACES		SCALE 1/1"	SHEET 1 OF 1
DO NOT SCALE DRAWING			



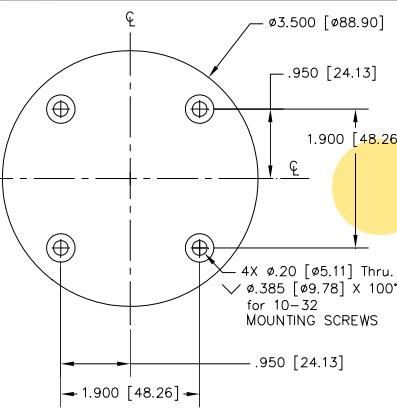
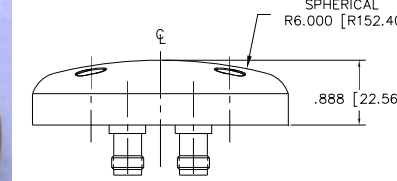
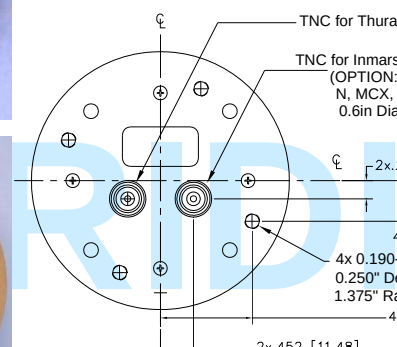


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SPECIFICATIONS

REVISIONS		DATE	APPROVED
ZONE	REV	DESCRIPTION	
A		Correct Gain Table	April-02-10 S.H

ELECTRICAL:		Rx-Thuraya (LHCP), or Rx Inmarsat OmniStar, L6 Galileo, B1 Compass (RHCP)		L1 GPS, E1, E2 Galileo, L1 IRNSS (RHCP)		IRIDIUM, L1 GLONASS (RHCP) or Tx-Globalstar (LHCP)		Tx-Thuraya (LHCP) or Tx-Inmarsat (RHCP)	
FREQUENCY:		(1542.5 ± 17.5) MHz		(1575 ± 17) MHz		(1609 -1626) MHz		(1642.5 ± 17.5) MHz	
RADIATION PATTERN:		HEMISPHERICAL							
VSWR:		< 2.0:1		< 2.0:1		< 2.0:1		< 2.0:1	
IMPEDANCE:		50 ohms		50 ohms		50 ohms		50 ohms	
ANTENNA GAIN (dBi):		Free Space		4 ft G.P.		Free Space		4 ft G.P.	
@ 90 ° (ZENITH):		+ 2.5		+ 1.6		+ 3.7		- 1.5	
@ 10 ° Elevation:		- 4.7		- 2.4		- 3.5		- 3.5	
@ 20 ° Elevation:		- 3.8		+ 0.7		- 2.6		- 0.9	
@ 30 ° Elevation:		- 2.1		+ 2.3		- 0.9		+ 0.3	
@ 60 - 90 ° Elevation:		> + 1.0		> + 2.1		> + 2.3		> 0	
BEAM WIDTH (3dB):		90 Deg.		140 Deg.		85 Deg.		140 Deg.	
AXIAL RATIO:						3 dB			
LIGHTNING PROTECTION:		DC GROUNDING							
LNA NOISE FIGURE:		33 dB Gain 3.0 dB +13 dBm							
LNA P1dB Out:		2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24V)/<50mA							
LNA DC POWER:		-40 dB / -40 dB							
REJECTION @ (-50/+50) MHz		< -65 dB							
POWER HANDLING:		100 Watts CW (WITHOUT LNA) , 1 Watt CW (WITH LNA)							

MECHANICAL:	
SIZE:	DIAMETER: 3.50 in. [88.9 mm] HEIGHT: 0.888in. [22.56 mm] 10oz. (283g)
WEIGHT:	SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDIUM PER MIL-C-5541F
FINISH:	6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT
MATERIAL:	SMA FEMALE (OPTION: TNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX, or Cable)
CONNECTOR:	
ENVIRONMENTAL:	TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C] ALTITUDE: 70,000 ft. VIBRATION: > 30 G's LEAKAGE: HERMETICALLY SEALED
FEDERAL & MILITARY SPECIFICATIONS:	FAA TSO-C144, DO-160D, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455
ACCEPTANCE TEST PROCEDURE:	ATP-GPS-L1L2-100

SIZE	Frequency	POLARIZATION	GPS LNA OPTION
1. 2" SQ.	1516 (L1 GPS) & (Thuraya/Tx-Globalstar)	RL: RHCP/LHCP	A: WITH LNA
1.9: 1.9" SQ.	1616 (Inmarsat/Iridium) & (Thuraya/Tx-Globalstar)	RL: RHCP/LHCP	A: WITH LNA/LIMITER
2. 2.6" DIA.			P: WITHOUT LNA
3. 3.5" DIA.			
4. MINI ARINC			

QUANTITY	DESCRIPTION	PARTS LIST	PART NO	FINISH	ITEM NO
4	MOUNTING SCREWS: 10-32, 1", Item 579		J507C1032R16		5
1	GASKET		3G15P1001-3G		1

2. MOUNTING SCREWS & ADHESIVE GASKET ARE SUPPLIED BY ANTCOM

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

CABLE'S LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA; P: PINS	1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAG., N: No Mag	M: MCX; MM: MMCX	2: LUSTERLESS GRAY #36320 PER FED-STD-595B
#: CABLE LENGTH (IN)	N: N, NB: N-Bulkhead	3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	T: TNC, TB: TNC-Bulkhead	4: LUSTERLESS BLACK #37038 PER FED-STD-595B

P/N: 3GNSS1616RL-PP-XTT-3

ANTCOM CORP. TORRANCE, CALIFORNIA

3.5" Dia., Bottom Connector
(Inmarsat/Iridium/GPS) &
(Thuraya/Tx-Globalstar) Antenna

3G15P1001-3G

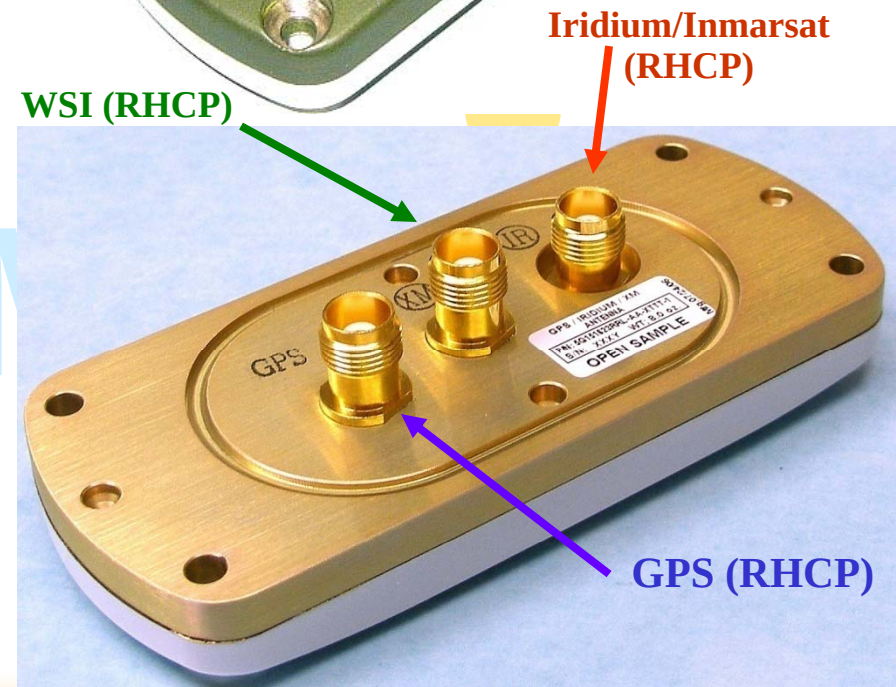
3GNSS1616RL-XP-XXX-X

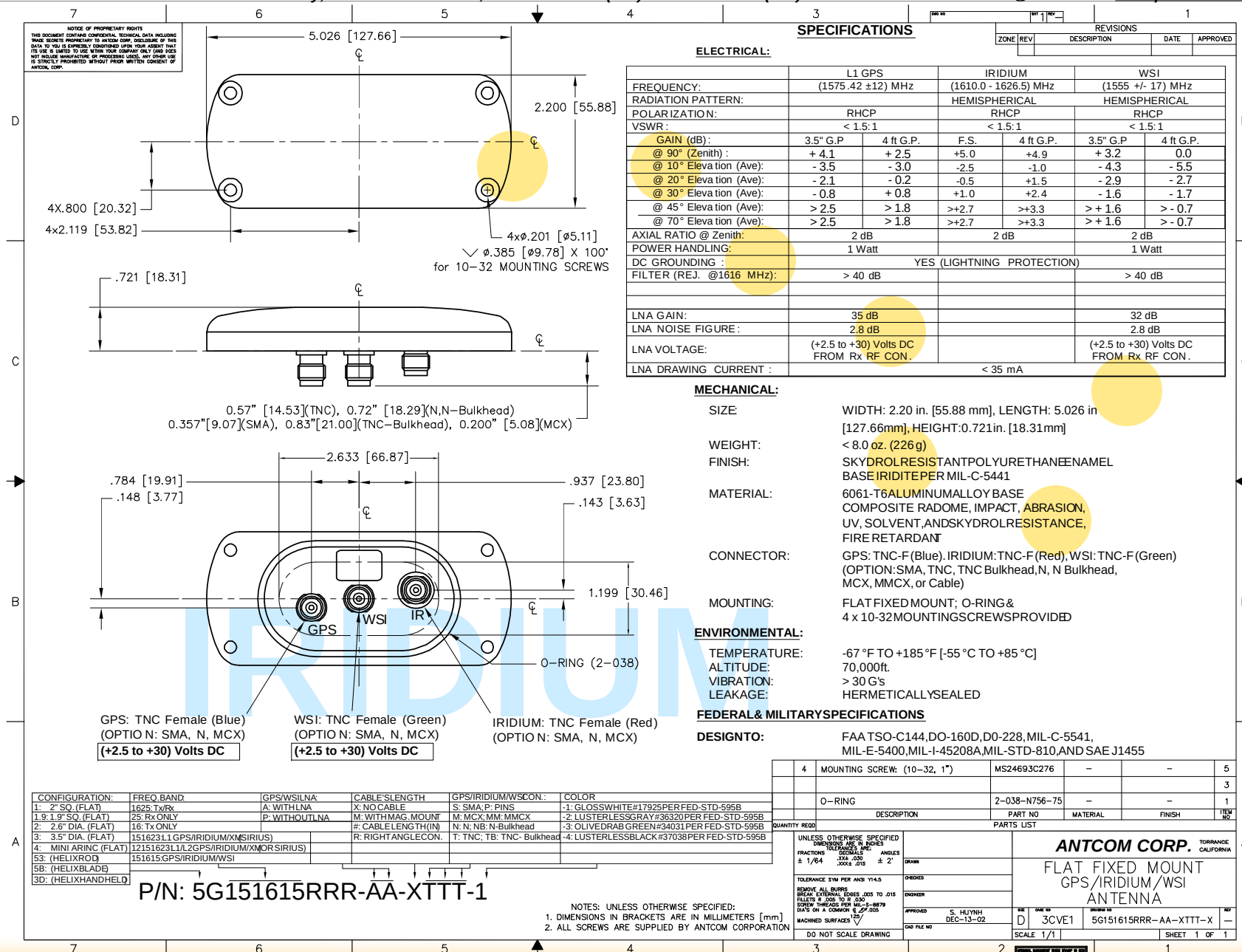
SHEET 1 OF 1



Hermetically Sealed, Designed for Harsh Environment Applications.

Connector is Available in SMA, MCX, MMCX, TNC, TNC-B, N, or N-Bulkhead (See Drawing)







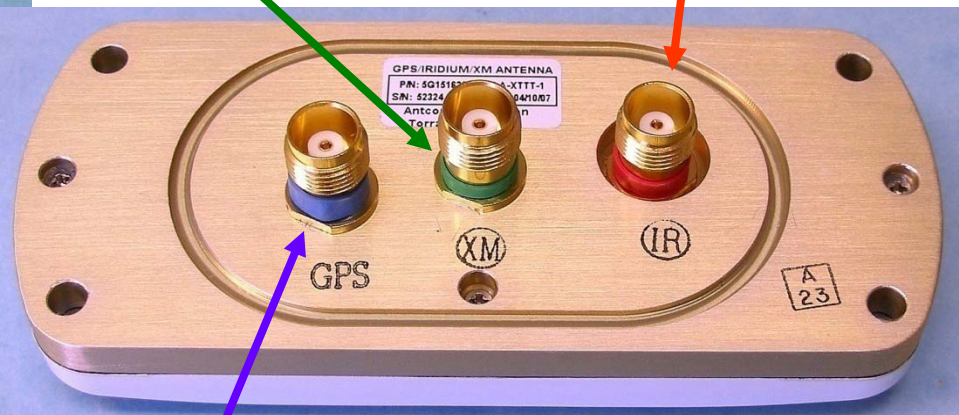
Hermetically Sealed, Designed for Harsh Environment Applications.

Connector is Available in SMA, MCX, MMCX, TNC, TNC-B, N, or N-Bulkhead (See Drawing)



XM (LHCP), OR SIRIUS (RHCP)

Iridium/Inmarsat (RHCP)



GPS (RHCP)

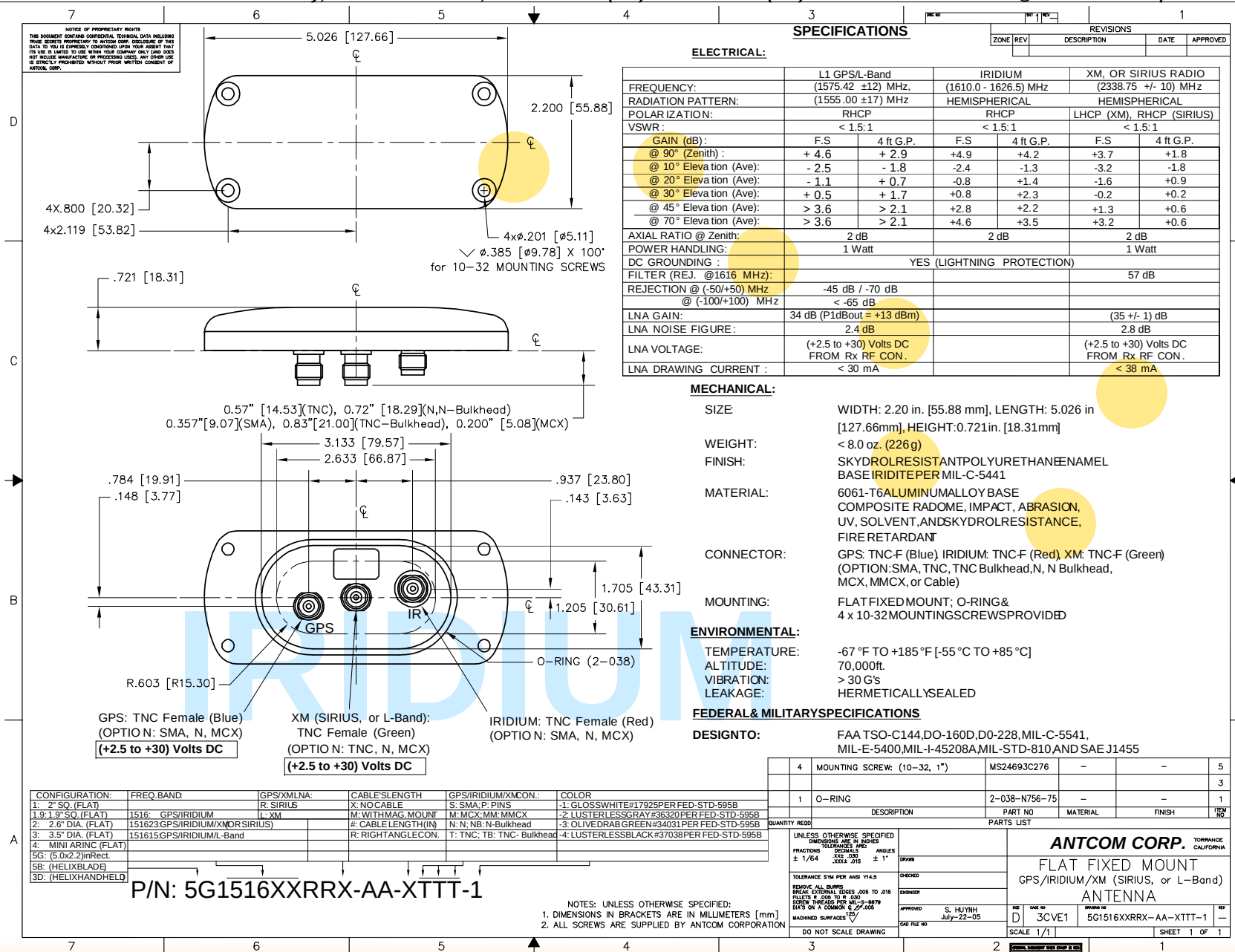


ISO9001

GPS/IRIDIUM/XM or SIRIUS Antenna: (5.03"x2.08"x0.69"), Flat/Pipe mount, P/N: 5G151623RRX-AA-XTTT-X



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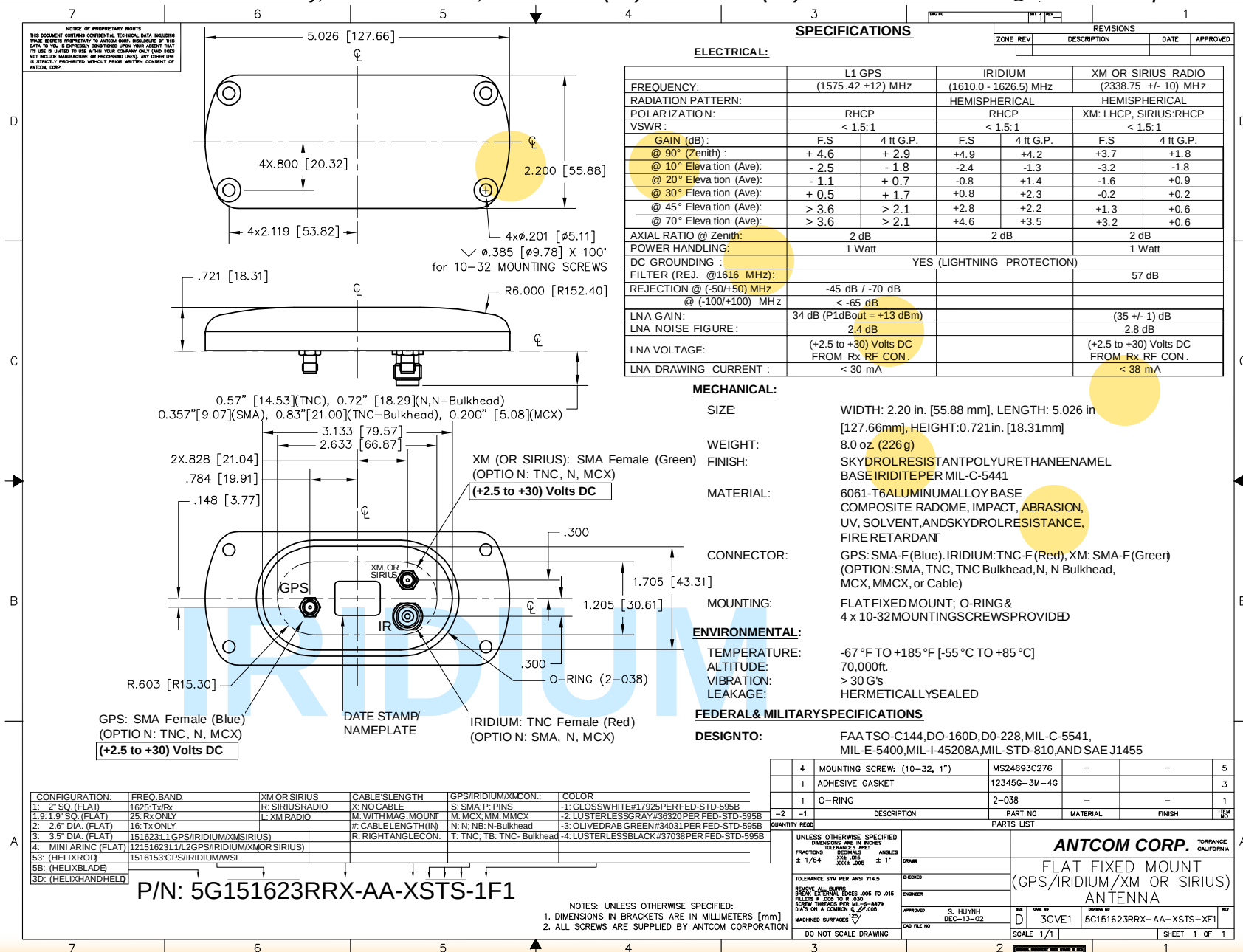


ISO9001

GPS/IRIDIUM/XM or SIRIUS Antenna: (5.03"x2.08"x0.69"), Flat/Top mount, P/N: 5G151623RRX-AA-XSTS-X

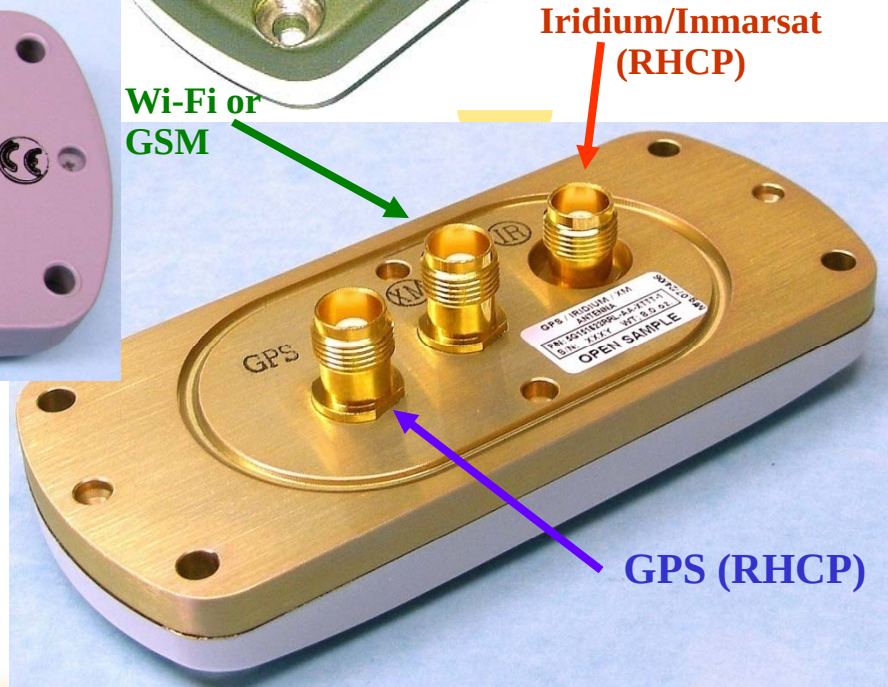
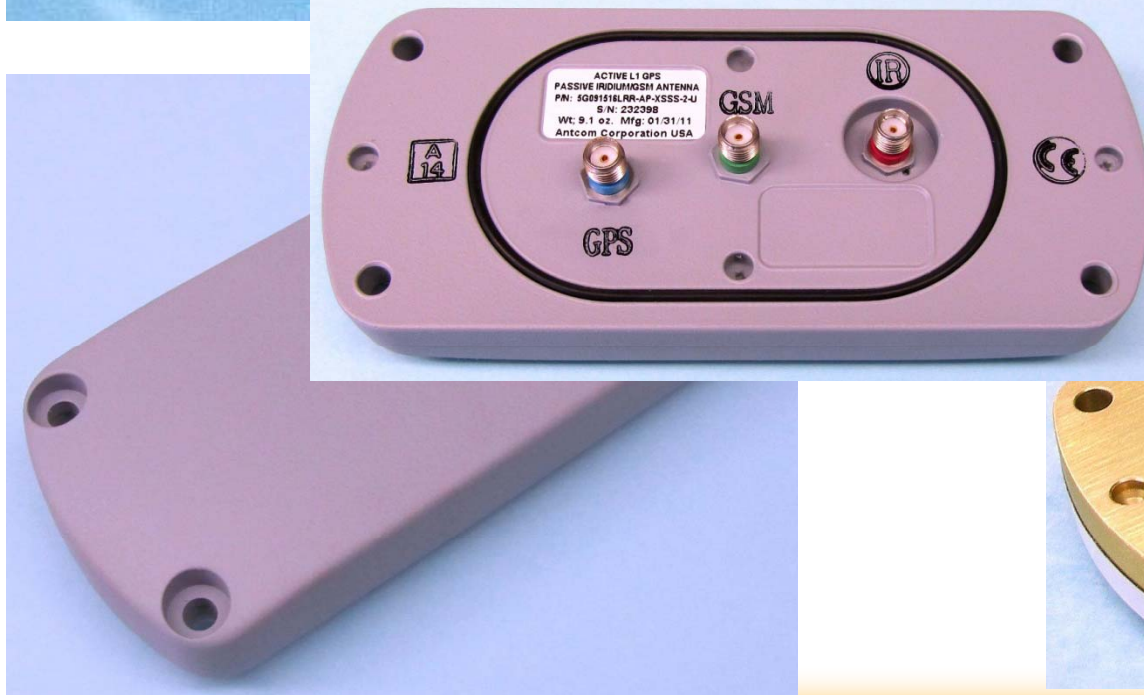


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Harsh Environment Applications.**

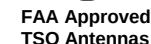
**Connector is Available in SMA, MCX,
MMCX, TNC, TNC-B, N, or N-
Bulkhead (See Drawing)**



(5.03"x2.08"x0.69"), Flat/Pipe mount, P/N: 5GXX1X16LRR-AP-XXXX-X

P/N: 5G091516LRR-AP-XTTT-1 (GSM/L1-GPS/Iridium with all TNC Connectors),

P/N: 5G091216LRR-AP-XTTT-1 (GSM/L1/L2-GPS/Iridium with all TNC Connectors)



ANTCOM CORP.
FLAT FIXED MOUNT
GSM/GPS/IRIDIUM
ANTENNA

Example P/N: 5G091516LRR-AP-XTT-1

NOTES: UNLESS OTHERWISE SPECIFIED:
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
2. ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION



Hermetically Sealed, Designed for Harsh Environment Applications.

Connector is Available in SMA, MCX, MMCX, TNC, TNC-B, N, or N-Bulkhead (See Drawing)



(5.03"x2.08"x0.69"), Flat/Pipe mount, P/N: 5G161625RLL-A1-XSSS-XF1



7 6 5

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5.026 [127.66]

4X.800 [20.32]

2.200 [55.88]

4x2.119 [53.82]

4xØ.201 [Ø5.11]

Technical drawing of the Bulkhead Mounting Plate. The plate has a width of .721 [18.31] inches. It features two mounting holes with a diameter of ∅.385 [∅9.78] inches, spaced 0.57" [14.53] (TNC) apart from each other and 0.72" [18.29] (N,N-Bulkhead) from the centerline. The distance from the left edge to the first hole is 0.357" [9.07] (SMA), and the distance from the second hole to the right edge is 0.200" [5.08] (MCX). The top surface has a radius of R6.000 [R152.40]. The plate is designed for 10-32 mounting screws.

Technical drawing of the Iridium 9505 satellite terminal showing dimensions and component locations. The drawing includes the following labels and dimensions:

- Dimensions:**
 - 2X.828 [21.04]
 - .784 [19.91]
 - .148 [3.77]
 - .300
 - .300
- Components and Labels:**
 - Rx Globalstar:SMAFemale(Blue) (OPTION: TNC, N, MCX) (+2.5 to +30) Volts DC
 - IRIDIUM:SMAFemale (OPTION: TNC, N, MCX)
 - DATE STAMP/NAMEPLATE
 - Tx Globalstar: SMAFemale (Red) (OPTION: TNC, N, MCX)
 - 0-RING (2-038)
 - RX
 - TX

CONFIGURATION	FREQ. BAND	LNA	CABLE'S LENGTH	TX/RX/GPS CONNECTOR	COLOR
1. 2" SQ. (FLAT)	1625: TX/R x	A1: WITH LNA	X: NO CABLE	S: SMA; P: PINS	1: GLOSS WHITE #17925 PER FED-STD-595B
1.9-1.9" SQ. (FLAT)	25: RX ONLY	P: WITHOUT LNA	M: WITH MAG. MOUNT T	M: MCM; MM: MMX	2: DUSTLESS GRAY #36320 PER FED-STD-595B
2. 2.6" DIA. (FLAT)	16: TX ONLY		#: CABLE LENGTH (N)	N: N; NB: N-Bulkhead	3: OLIVE DRAB GREEN #40301 PER FED-STD-595B
3. 3.5" DIA. (FLAT)	151625: L1 GPS/Tx/Rx		R: RIGHT ANGLE CON.	T: TNC; TB: TNC-Bulkhead	4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4. MINIRANGER (FLAT)	15121625: L1/L2 GPS/Tx/Rx				
5B: (HELIX ROD)	161625: Iridium/GLOBALSTAR				
5D: (HELIX BLADE)					
3D: (HELIX HANDHELD)					

P/N: 5G151625RLL-A1-XSSS-1F1

NOTES: UNLESS OTHERWISE SPECIFIED:
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
2. ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

ELECTRICAL:

	TX GLOBALSTAR (1610 - 1625) MHz	RX GLOBALSTAR (2484 - 2499) MHz	IRIDIUM (1610.0 - 1626.5) MHz
FREQUENCY:			
RADIATION PATTERN:		HEMISPHERICAL	HEMISPHERICAL
POLARIZATION:	LCPP	LCPP	RCPP
VSWR:	< 2.0:1	< 1.5:1	< 1.5:1
GAIN (dB):	F.S 4 ft G.P.	F.S 4 ft G.P.	4 ft G.P. Free Space
@ 90° (Zenith):	+4.9 +4.2	+3.7 +1.8	+4.9 +5.0
@ 10° Elevation (Ave):	-2.4 -1.3	-3.2 -1.8	-1.0 -2.5
@ 20° Elevation (Ave):	-0.8 +1.4	-1.6 +0.9	+1.5 -0.5
@ 30° Elevation (Ave):	+0.8 +2.3	-0.2 +0.2	+2.4 +1.0
@ 45° Elevation (Ave):	+2.8 +2.2	+1.3 +0.6	>+3.3 >+2.7
@ 70° Elevation (Ave):	+4.6 +3.5	+3.2 +0.6	
AXIAL RATIO @ Zenith:	2 dB	2 dB	2 dB
POWER HANDLING:	>5 W	1 Watt	
DC GROUNDING		YES (LIGHTNING PROTECTION)	
FILTER (REJ. @1616 MHz):		57 dB	
REJECTION @ (-50/+50) MHz @ (-100/+100) MHz			
LNA GAIN:	N/A	(35 +/- 1) dB	
LNA NOISE FIGURE:	N/A	2.8 dB	
LNA VOLTAGE:	N/A	(+2.5 to +30) Volts DC FROM Rx RF CON.	
LNA DRAWING CURRENT:	N/A	< 38 mA	

MECHANICAL:

SIZE:	WIDTH: 2.20 in. [55.88 mm], LENGTH: 5.026 in [127.66 mm], HEIGHT: 0.721 in. [18.31 mm]
WEIGHT:	8.0 oz. (226 g)
FINISH:	SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5441
MATERIAL:	6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, AND SKYDROL RESISTANCE, FIRE RETARDANT
CONNECTOR:	Tx (Red): SMA F., Rx (Blue): SMA F., IRIIDIUM: SMA F. (OPTION: SMA, TNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX, or Cable)
MOUNTING:	FLAT FIXED MOUNT; O-RING & 4 x 10-32 MOUNTING SCREWS PROVIDED

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]
 ALTITUDE: 70,000 ft.
 VIBRATION: > 30 G's
 LEAKAGE: HERMETICALLY SEALED

FEDERAL & MILITARY SPECIFICATIONS:

DESIGN TO: FAA TSO-C144, DO-160D, D0-228, MIL-C-5541,
MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

4	MOUNTING SCREW: (10-32, 1")	MS24693C276	-	-	
1	ADHESIVE GASKET	12345G-3M-4G			
1	O-RING	2-038	-	-	
-2	-1	DESCRIPTION	PART NO	MATERIAL	FINISH
QUANTITY REQD	PARTS LIST				

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES FRACTIONS SHALL BE IN 16ths TOLERANCE .010 PER ANSI Y14.5 REPAIR ALL BIRDS BEFORE EXTERNAL SURFACES PULLEY 1/2" DIA PULLEY 1/2" DIA SLOT ON A COIL W/ 1/2" DIA MAGNETIC SURFACES NO MACHINE SURFACING	ANTCOM CORP. TORRANCE, CALIFORNIA FLAT FIXED MOUNT GLOBALSTAR/IRIDIUM ANTENNA
1/8 DIA 3/16 DIA 3/8 DIA 1/2 DIA 3/4 DIA 1 DIA 1 1/2 DIA 2 DIA 3 DIA 4 DIA 5 DIA 6 DIA 8 DIA 10 DIA 12 DIA 14 DIA 16 DIA 18 DIA 20 DIA 24 DIA 30 DIA 36 DIA 42 DIA 48 DIA 54 DIA 60 DIA 72 DIA 84 DIA 96 DIA 108 DIA 120 DIA 144 DIA 168 DIA 192 DIA 216 DIA 240 DIA 288 DIA 324 DIA 360 DIA 408 DIA 456 DIA 504 DIA 576 DIA 648 DIA 720 DIA 800 DIA 864 DIA 936 DIA 1008 DIA 1080 DIA 1152 DIA 1224 DIA 1296 DIA 1368 DIA 1440 DIA 1512 DIA 1584 DIA 1656 DIA 1728 DIA 1800 DIA 1872 DIA 1944 DIA 2016 DIA 2088 DIA 2160 DIA 2232 DIA 2304 DIA 2376 DIA 2448 DIA 2520 DIA 2592 DIA 2664 DIA 2736 DIA 2808 DIA 2880 DIA 2952 DIA 3024 DIA 3096 DIA 3168 DIA 3240 DIA 3312 DIA 3384 DIA 3456 DIA 3528 DIA 3600 DIA 3672 DIA 3744 DIA 3816 DIA 3888 DIA 3960 DIA 4032 DIA 4104 DIA 4176 DIA 4248 DIA 4320 DIA 4392 DIA 4464 DIA 4536 DIA 4608 DIA 4680 DIA 4752 DIA 4824 DIA 4896 DIA 4968 DIA 5040 DIA 5112 DIA 5184 DIA 5256 DIA 5328 DIA 5400 DIA 5472 DIA 5544 DIA 5616 DIA 5688 DIA 5760 DIA 5832 DIA 5904 DIA 5976 DIA 6048 DIA 6120 DIA 6192 DIA 6264 DIA 6336 DIA 6408 DIA 6480 DIA 6552 DIA 6624 DIA 6696 DIA 6768 DIA 6840 DIA 6912 DIA 6984 DIA 7056 DIA 7128 DIA 7200 DIA 7272 DIA 7344 DIA 7416 DIA 7488 DIA 7560 DIA 7632 DIA 7704 DIA 7776 DIA 7848 DIA 7920 DIA 7992 DIA 8064 DIA 8136 DIA 8208 DIA 8280 DIA 8352 DIA 8424 DIA 8496 DIA 8568 DIA 8640 DIA 8712 DIA 8784 DIA 8856 DIA 8928 DIA 8996 DIA 9068 DIA 9136 DIA 9204 DIA 9272 DIA 9344 DIA 9416 DIA 9488 DIA 9560 DIA 9632 DIA 9704 DIA 9776 DIA 9848 DIA 9920 DIA 9992 DIA 10064 DIA 10136 DIA 10208 DIA 10280 DIA 10352 DIA 10424 DIA 10496 DIA 10568 DIA 10640 DIA 10712 DIA 10784 DIA 10856 DIA 10928 DIA 11000 DIA 11072 DIA 11144 DIA 11216 DIA 11288 DIA 11360 DIA 11432 DIA 11504 DIA 11576 DIA 11648 DIA 11720 DIA 11792 DIA 11864 DIA 11936 DIA 12008 DIA 12080 DIA 12152 DIA 12224 DIA 12296 DIA 12368 DIA 12440 DIA 12512 DIA 12584 DIA 12656 DIA 12728 DIA 12800 DIA 12872 DIA 12944 DIA 13016 DIA 13088 DIA 13160 DIA 13232 DIA 13304 DIA 13376 DIA 13448 DIA 13520 DIA 13592 DIA 13664 DIA 13736 DIA 13808 DIA 13880 DIA 13952 DIA 14024 DIA 14096 DIA 14168 DIA 14240 DIA 14312 DIA 14384 DIA 14456 DIA 14528 DIA 14600 DIA 14672 DIA 14744 DIA 14816 DIA 14888 DIA 14960 DIA 15032 DIA 15104 DIA 15176 DIA 15248 DIA 15320 DIA 15392 DIA 15464 DIA 15536 DIA 15608 DIA 15680 DIA 15752 DIA 15824 DIA 15896 DIA 15968 DIA 16040 DIA 16112 DIA 16184 DIA 16256 DIA 16328 DIA 16400 DIA 16472 DIA 16544 DIA 16616 DIA 16688 DIA 16760 DIA 16832 DIA 16904 DIA 16976 DIA 17048 DIA 17120 DIA 17192 DIA 17264 DIA 17336 DIA 17408 DIA 17480 DIA 17552 DIA 17624 DIA 17696 DIA 17768 DIA 17840 DIA 17912 DIA 17984 DIA 18056 DIA 18128 DIA 18200 DIA 18272 DIA 18344 DIA 18416 DIA 18488 DIA 18560 DIA 18632 DIA 18704 DIA 18776 DIA 18848 DIA 18920 DIA 18992 DIA 19064 DIA 19136 DIA 19208 DIA 19280 DIA 19352 DIA 19424 DIA 19496 DIA 19568 DIA 19640 DIA 19712 DIA 19784 DIA 19856 DIA 19928 DIA 20000 DIA 20072 DIA 20144 DIA 20216 DIA 20288 DIA 20360 DIA 20432 DIA 20504 DIA 20576 DIA 20648 DIA 20720 DIA 20792 DIA 20864 DIA 20936 DIA 21008 DIA 21080 DIA 21152 DIA 21224 DIA 21296 DIA 21368 DIA 21440 DIA 21512 DIA 21584 DIA 21656 DIA 21728 DIA 21800 DIA 21872 DIA 21944 DIA 22016 DIA 22088 DIA 22160 DIA 22232 DIA 22304 DIA 22376 DIA 22448 DIA 22520 DIA 22592 DIA 22664 DIA 22736 DIA 22808 DIA 22880 DIA 22952 DIA 23024 DIA 23096 DIA 23168 DIA 23240 DIA 23312 DIA 23384 DIA 23456 DIA 23528 DIA 23600 DIA 23672 DIA 23744 DIA 23816 DIA 23888 DIA 23960 DIA 24032 DIA 24104 DIA 24176 DIA 24248 DIA 24320 DIA 24392 DIA 24464 DIA 24536 DIA 24608 DIA 24680 DIA 24752 DIA 24824 DIA 24896 DIA 24968 DIA 25040 DIA 25112 DIA 25184 DIA 25256 DIA 25328 DIA 25400 DIA 25472 DIA 25544 DIA 25616 DIA 25688 DIA 25760 DIA 25832 DIA 25904 DIA 25976 DIA 26048 DIA 26120 DIA 26192 DIA 26264 DIA 26336 DIA 26408 DIA 26480 DIA 26552 DIA 26624 DIA 26696 DIA 26768 DIA 26840 DIA 26912 DIA 26984 DIA 27056 DIA 27128 DIA 27200 DIA 27272 DIA 27344 DIA 27416 DIA 27488 DIA 27560 DIA 27632 DIA 27704 DIA 27776 DIA 27848 DIA 27920 DIA 27992 DIA 28064 DIA 28136 DIA 28208 DIA 28280 DIA 28352 DIA 28424 DIA 28496 DIA 28568 DIA 28640 DIA 28712 DIA 28784 DIA 28856 DIA 28928 DIA 29000 DIA 29072 DIA 29144 DIA 29216 DIA 29288 DIA 29360 DIA 29432 DIA 29504 DIA 29576 DIA 29648 DIA 29720 DIA 29792 DIA 29864 DIA 29936 DIA 30008 DIA 30080 DIA 30152 DIA 30224 DIA 30296 DIA 30368 DIA 30440 DIA 30512 DIA 30584 DIA 30656 DIA 30728 DIA 30800 DIA 30872 DIA 30944 DIA 31016 DIA 31088 DIA 31160 DIA 31232 DIA 31304 DIA 31376 DIA 31448 DIA 31520 DIA 31592 DIA 31664 DIA 31736 DIA 31808 DIA 31880 DIA 31952 DIA 32024 DIA 32096 DIA 32168 DIA 32240 DIA 32312 DIA 32384 DIA 32456 DIA 32528 DIA 32600 DIA 32672 DIA 32744 DIA 32816 DIA 32888 DIA 32960 DIA 33032 DIA 33104 DIA 33176 DIA 33248 DIA 33320 DIA 33392 DIA 33464 DIA 33536 DIA 33608 DIA 33680 DIA 33752 DIA 33824 DIA 33896 DIA 33968 DIA 34040 DIA 34112 DIA 34184 DIA 34	DATE: 1/1 DRAWN BY: 3C/VE1 SHEET 1/1 DATE: 1/1 DRAWN BY: S. HUYNN SHEET 1/1 DATE: 1/1 DRAWN BY: DEC-13-02 SHEET 1/1 DATE: 1/1 DRAWN BY: 5G16125RLL-AL-XSSS- XF SHEET 1/1



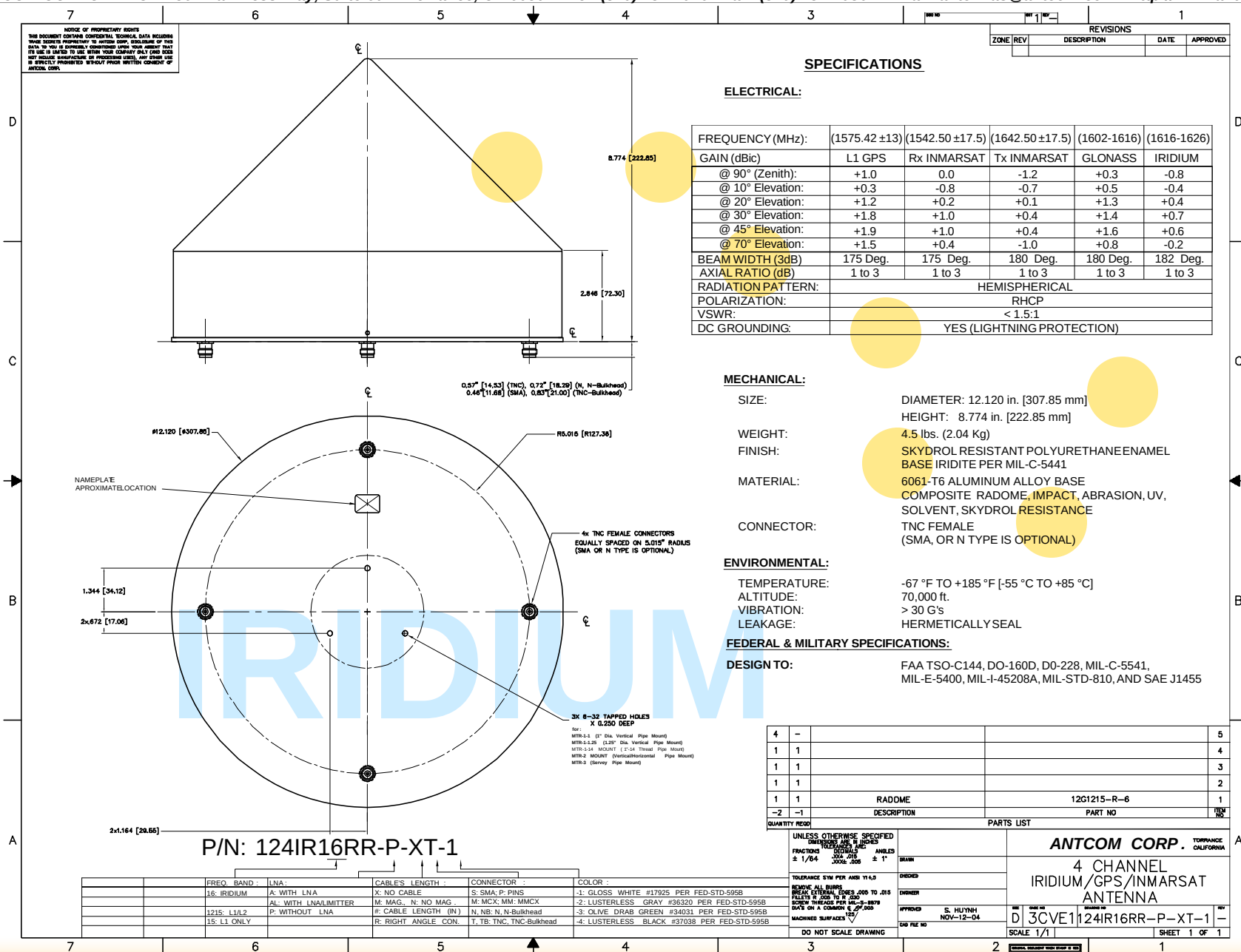
Hermetically Sealed, Designed for
Harsh Environment Applications.

Connector is Available in SMA, MCX,
MMCX, TNC, TNC-B, N, or N-
Bulkhead (See Drawing)





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P/N: S3IR16RR-P-XT-2-U

•Hermetically Sealed, Designed for Harsh Environment Applications.

Connector is Available in SMA, MCX, MMCX, TNC, TNC-B, N, or N-Bulkhead (See Drawing)



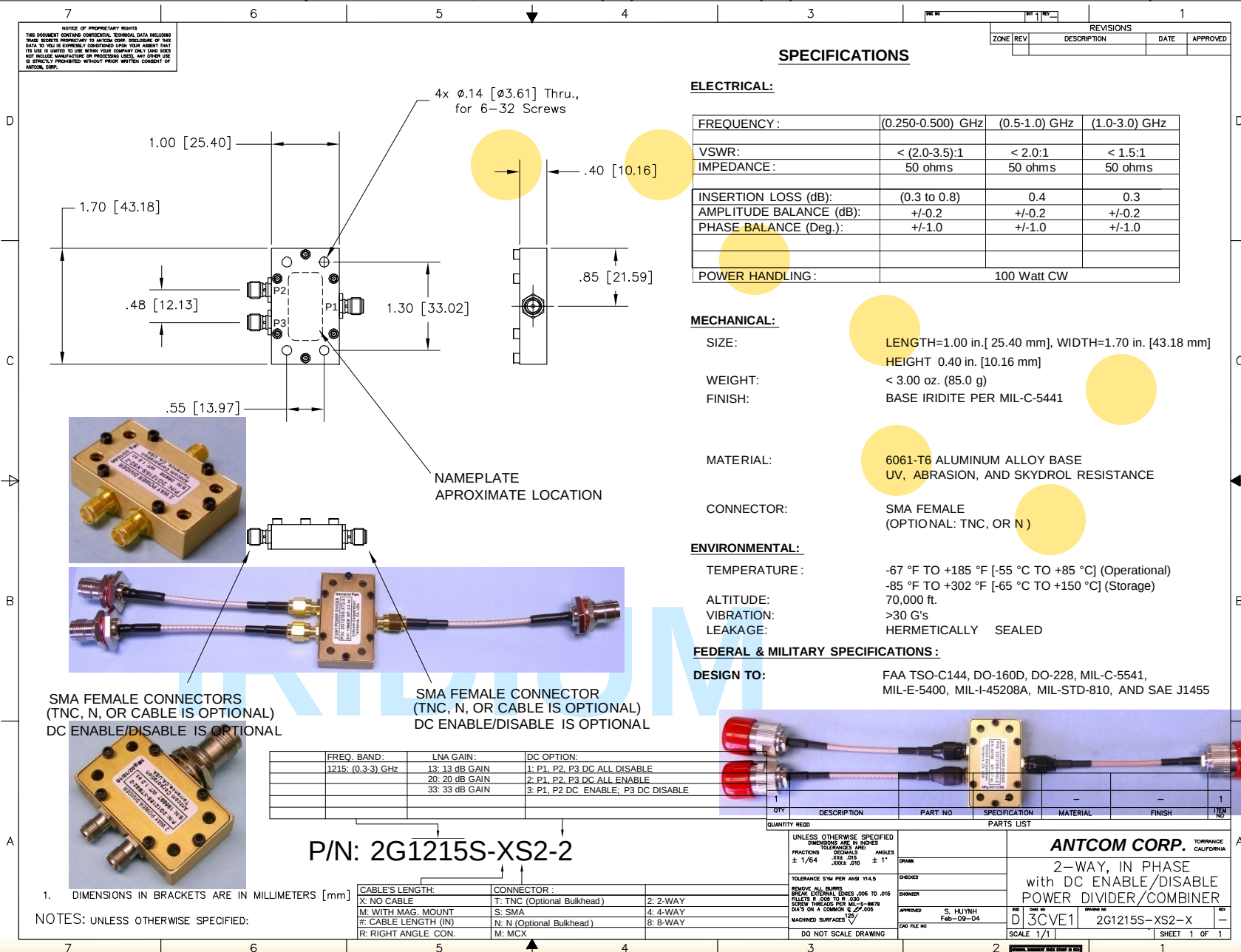
Amplifier, Power Divider/Combiner

IRIDIUM

2-Way Power Divider/Combiner for Multiple Channels, (P/N: 2G1215S-XS2-X)

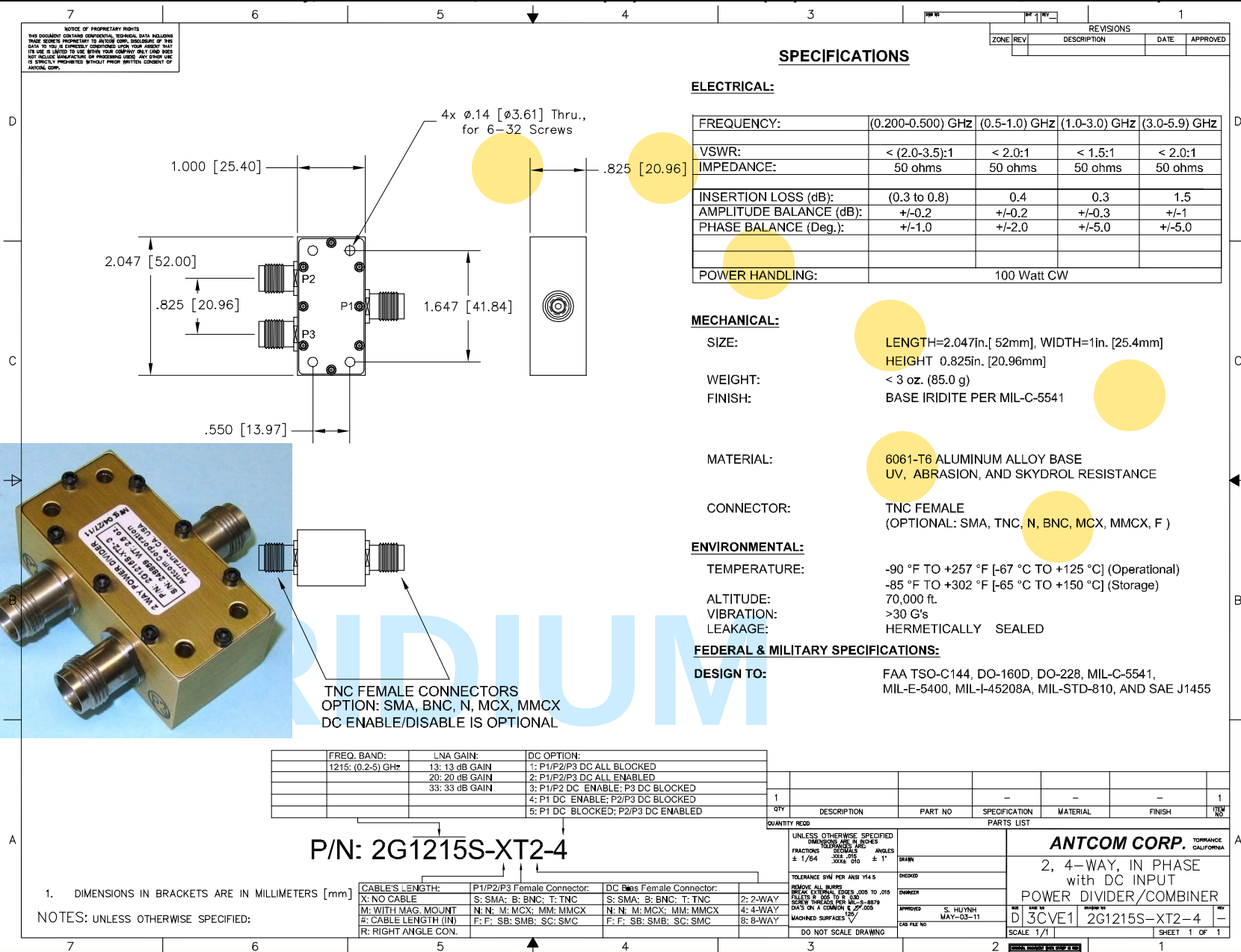


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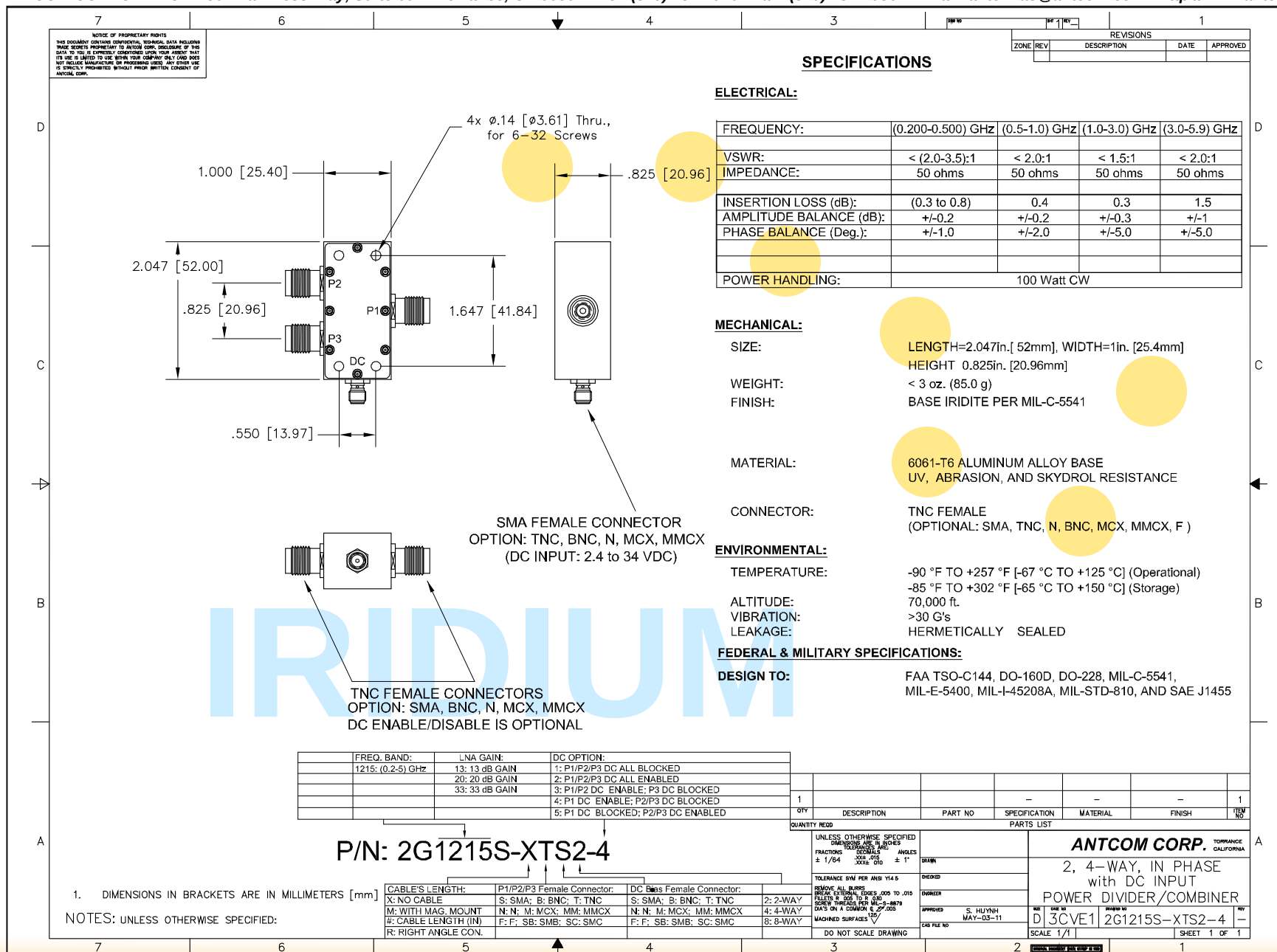


ISO9001

2-Way Power Divider/Combiner with DC Input for Multiple Channels

P/N: 2G1215S-XTS2-X

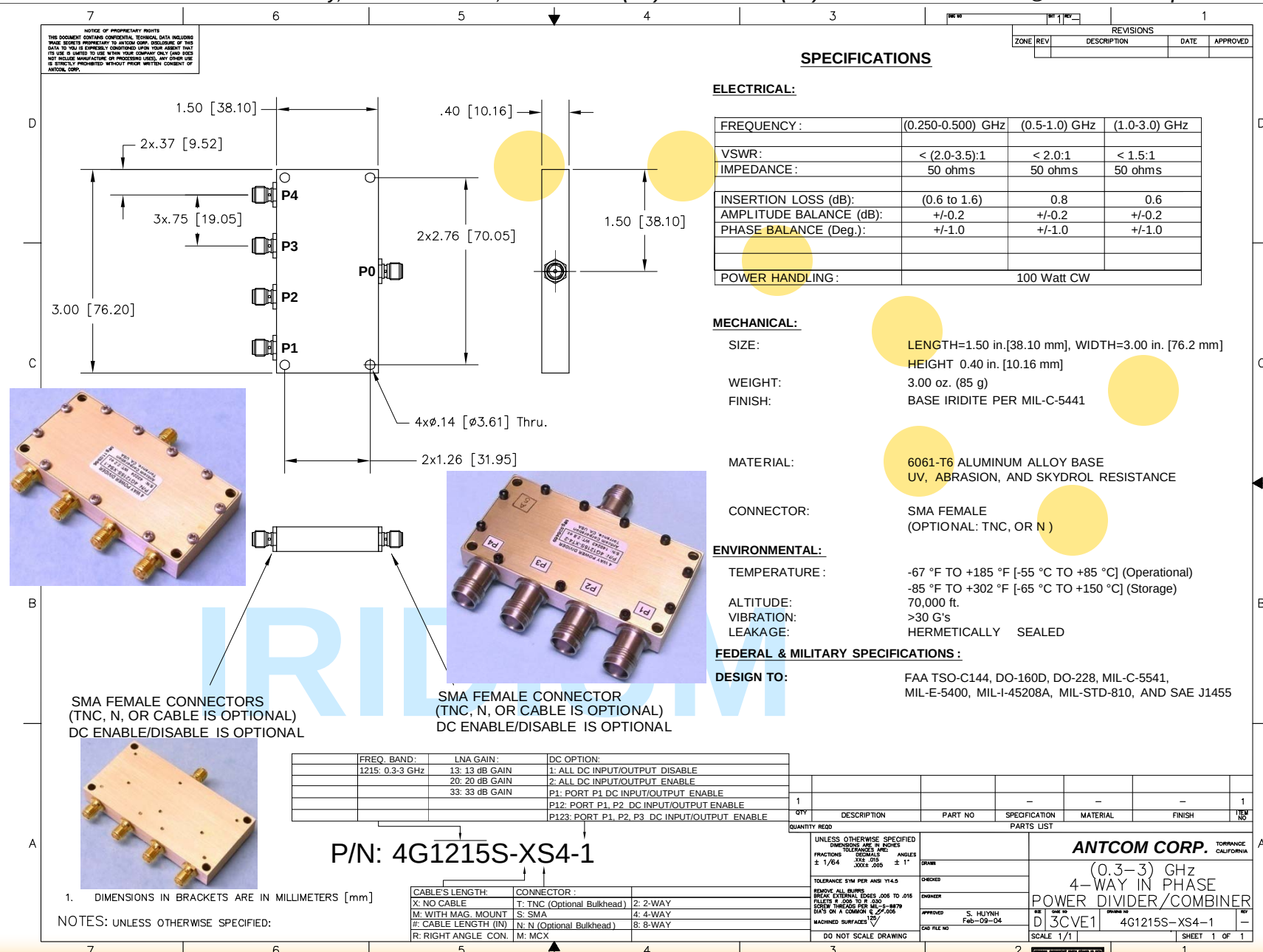
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4-Way Power Divider/Combiner for Multiple Channels, (P/N: 4G1215S-XS4-X)

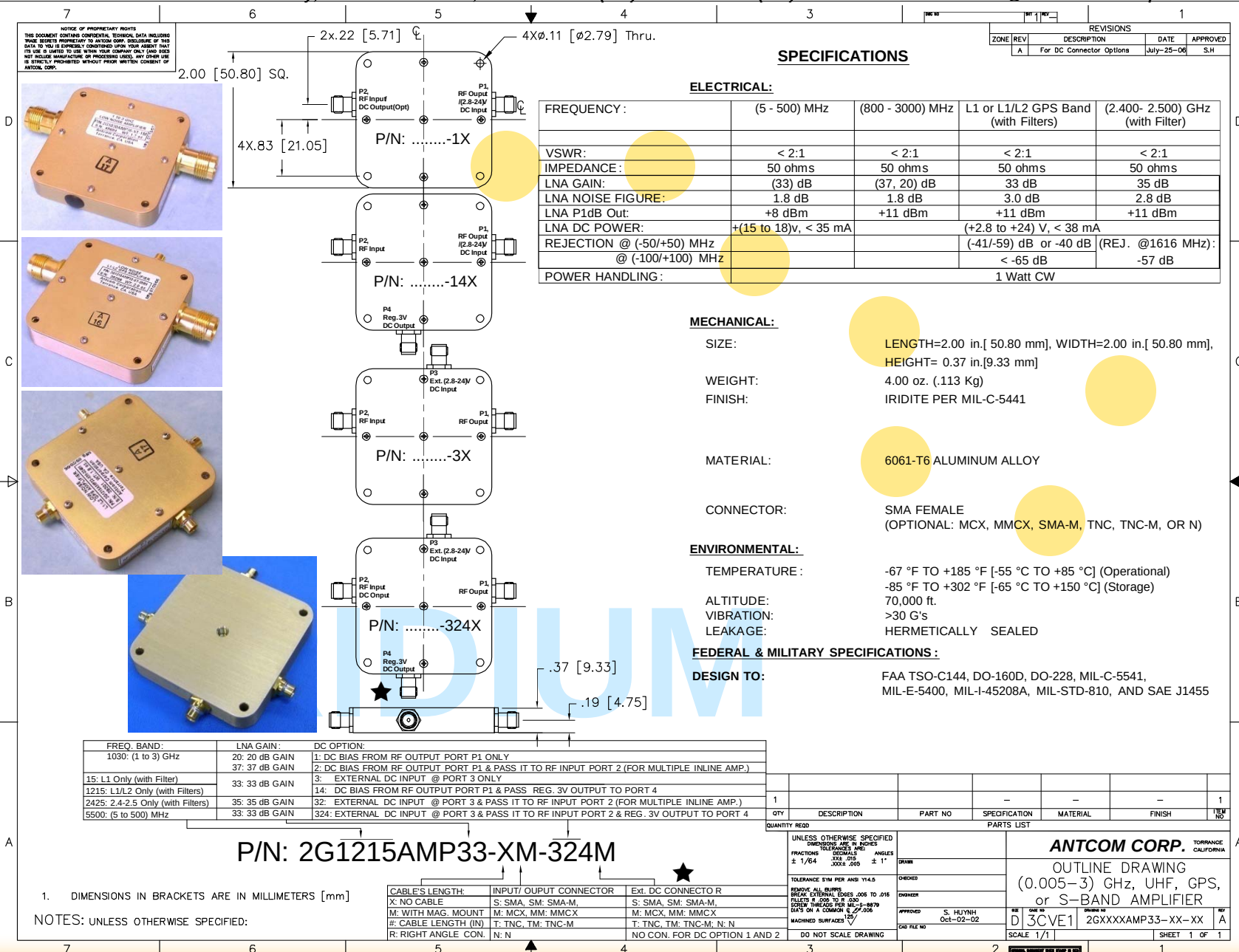


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6C9-1621.25-X10.5T11

Reactel part number 6C9-1621.25-X10.5T11 is a cavity bandpass filter for the Iridium band. This unit is specifically designed with a narrow bandwidth and high rejection to isolate Iridium frequencies from outside interference due to Inmarsat systems, and utilizes a special plating process. We also offer a "commercial" version and details for that unit can be had from the factory. This unit can be outfitted with any RF connector you may desire. Please contact the factory for this or any other Iridium filter requirement that you have.



Specifications

Center Frequency	1621.25 MHz
Passband	1616 – 1626.5 MHz, minimum
Insertion Loss	≤ 3.3 dB @ Passband
Rejection	≥ 35 dB @ 1614 MHz
Rejection	≥ 25 dB @ 1628 MHz
VSWR	≤ 1.5:1
Connectors	TNC Female in / out
Size	1.5" x 4.5" x 6.3" nominal

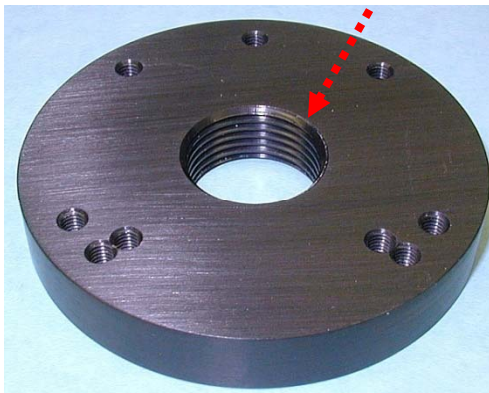
Antenna Mounts (Pipe Mounts/Spacer, 1 of 3)



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1"-14 Thread



1"-14 Threaded Pipe Mount,
3.25" Dia. x 0.5" Thick,
P/N: MTR-1-14 (Item 480)
for 3G, 53G, 73G, S3IR,
S53 Antenna Series



1.25in Dia.



1.2" Dia. Pipe
MTR-1-1.25 Rev D (Item 479)
for 3G, 53G, 73G, S3IR,
S53 Antenna Series,



1.075in Dia.



1" Dia. Pipe
P/N: MTR-1-1 Rev D (Item 478)
for 3G, 53G, 73G, S3IR,
S53 Antenna Series,



5/8-11 Thread



5/8-11 Thread, Survey Mount,
3.25" Dia. x 0.72" High,
P/N: MTR-3 Rev B
(Item 484a)
for 3GO, 5GO, 53GO,
73GO Antenna Series



Antenna Spacer Ring,
P/N: 53-XXXXYYYP-20N-4A-B
(Item 480G),
for 3G, 53G, 73G, S3IR,
S53 Antenna Series

Antenna Mounts (Pipe Mounts, 2 of 3)



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<1.3in Dia. Pipe Mount,
P/N: MTR-2 Rev B
(Item 482)
(for Both Vertical/
Horizontal Pipe)
for 3G, 4G, 5G, 3G,
73G, S3IR, S4IR,
S53, S5G
Antenna Series



<1.3in Dia.



1" Pipe Mount,
P/N: 71G-MOUNT (Item 478a)
for 3D, 51G, 73G, S51
Antenna Series



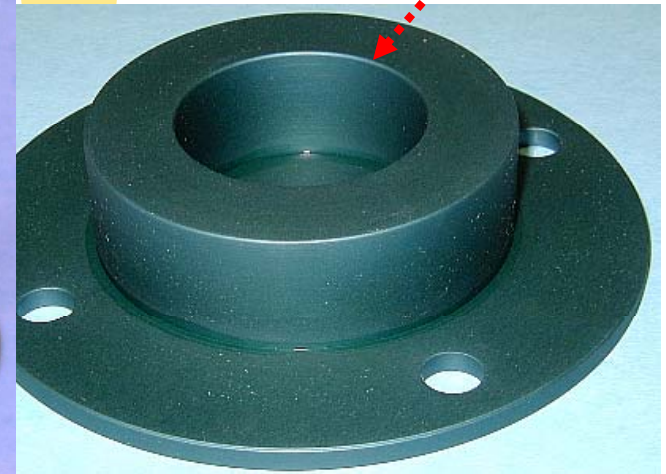
1.075in Dia.



P/N: SS4365
(Item 478s)
1in-14 Antenna Mount.



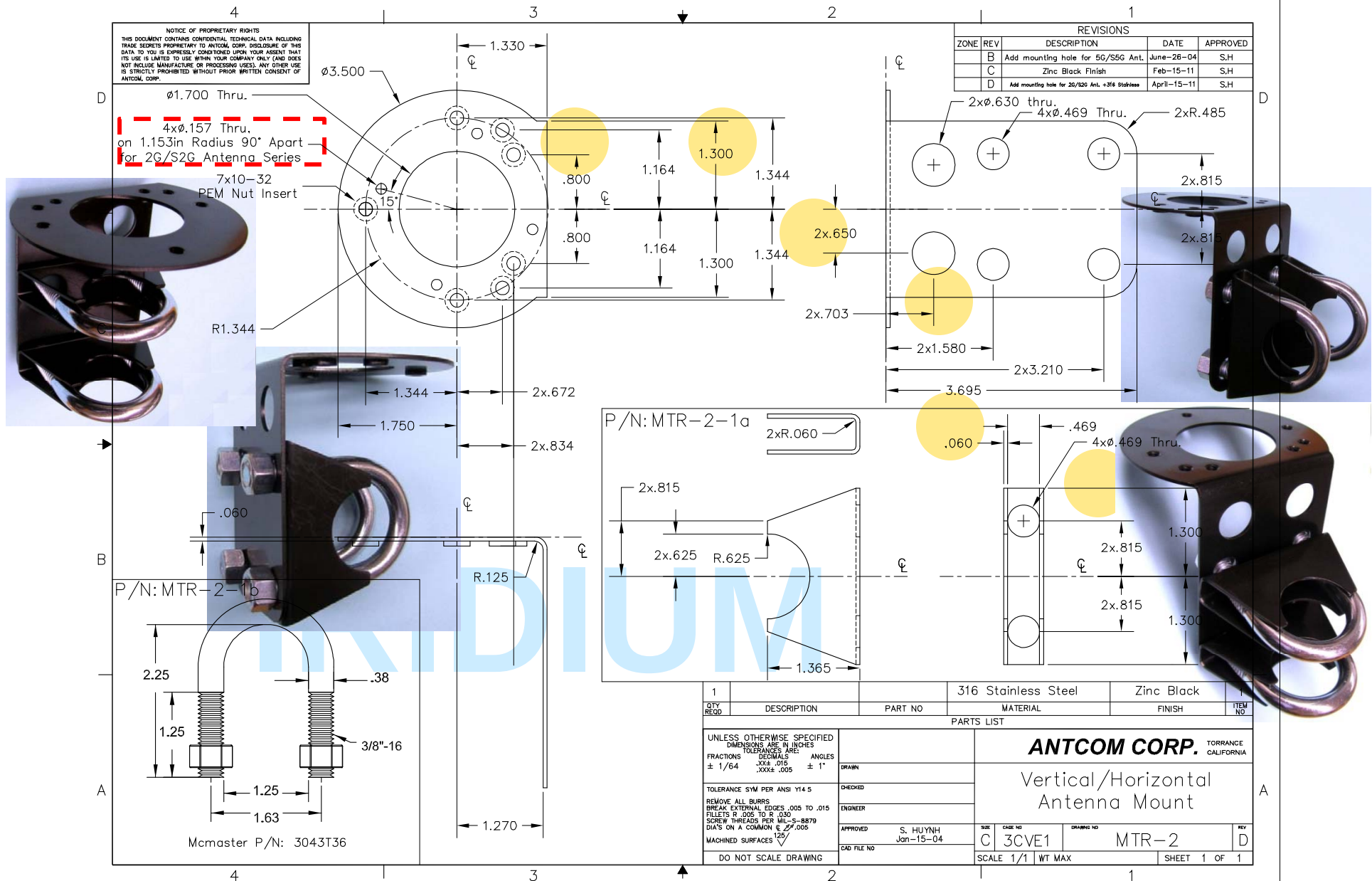
1.969in Dia.



Motorola Antenna Mount,
P/N: MTR-4 (Item 485)
for 3G, 53G, 73G, S3IR, S53
Center Connector Antenna Series



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Antenna Mounts (Magnetic Mounts 3 of 3)



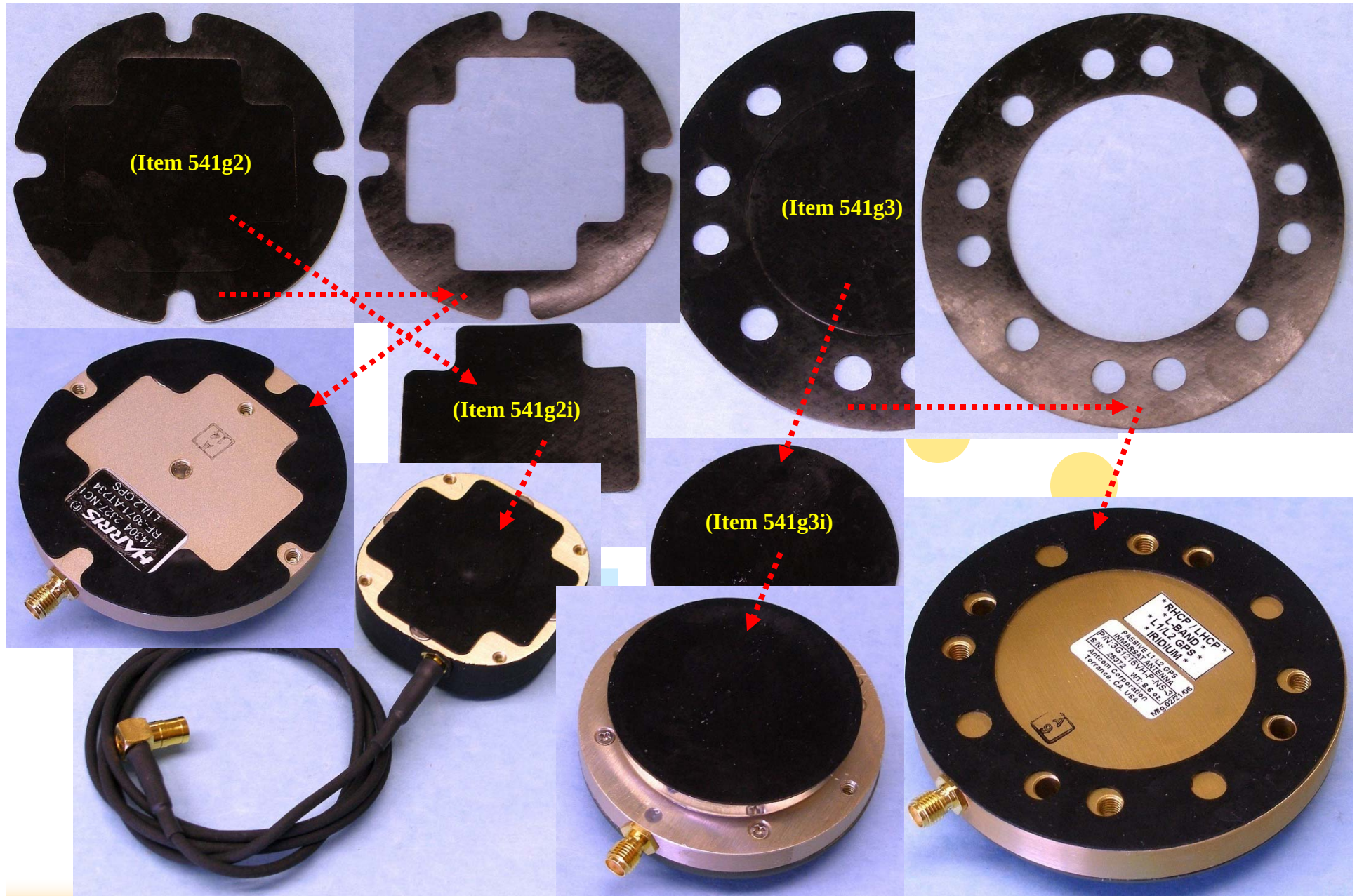
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Magnet Cover, P/N: Magnet-Cover-2/-2i/-3/-3i
(Item 541g2, 541g2i, 541g3, 541g3i)
for 1G 2G, 2DG, 3G, S2, and S3 Antenna Series, with Adhesive Back



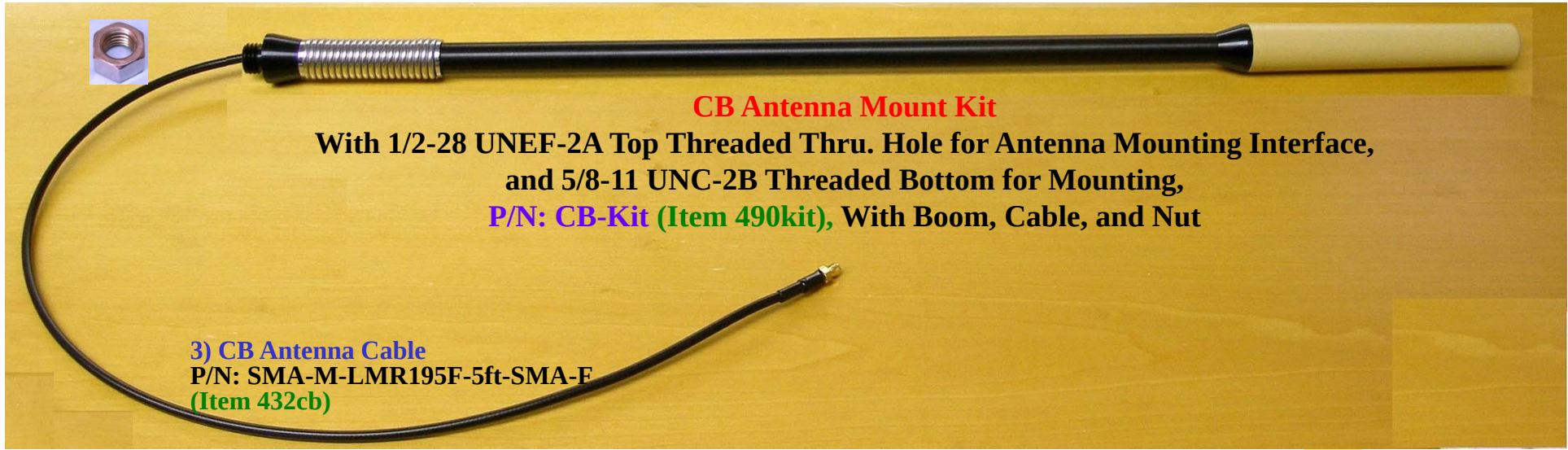
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CB Antenna Mounting Kit (Boom Assembly, Cable, and Nut)



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CB Antenna Mount Kit

With 1/2-28 UNEF-2A Top Threaded Thru. Hole for Antenna Mounting Interface,
and 5/8-11 UNC-2B Threaded Bottom for Mounting,
P/N: CB-Kit (Item 490kit), With Boom, Cable, and Nut

3) CB Antenna Cable
P/N: SMA-M-LMR195F-5ft-SMA-F
(Item 432cb)



4) CB Antenna Nut
5/8-11 UNC-2B Thread,
Zinc Plated Steel
P/N: 93839A832 (Item 489cb)



1) CB Antenna Boom Assembly,
16.75 Long x 0.625in Dia., 0.37in Dia. Thru.

With 1/2-28 UNEF-2A Top Threaded Thru. Hole for Antenna Mounting Interface
and 5/8-11 UNC-2B Threaded Bottom for Mounting,
P/N: CB-Boom (Item 490boom)



ISO9001

Links to Pdf Catalogs:
L1/L2/L5 GPS, L1/L2 Glonass, Omnistar, Galileo, Compass, GSM,
Iridium, Inmarsat, Globalstar, Thuraya, XM/Sirius, UHF, L, S, C, X, Ku-band Antennas,
Power Divider/combiner, Amplifiers, and RF Cables.



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http://www.antcom.com/documents/catalogs/Antcom_New_Ruggedized_High_Corrosion_Resistant_Buoy_Antennas.pdf
http://www.antcom.com/documents/catalogs/G5_Antennas_L1L2GLonass_Plus_L1L2GPS_Omnistar.pdf
http://www.antcom.com/documents/catalogs/G3_Antennas_L1GLonass_Plus_L1GPS_Omnistar.pdf
<http://www.antcom.com/documents/catalogs/L1GPSAntennas.pdf>
<http://www.antcom.com/documents/catalogs/L1L2GPSAntennas.pdf>
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<http://www.antcom.com/documents/catalogs/PassiveS-BandandBeidouAntennas.pdf>
<http://www.antcom.com/documents/catalogs/UHF-BandAntennas.pdf>
<http://www.antcom.com/documents/catalogs/LSC-BandAntennas1.pdf> **(UHF, L, S, C, X, and Ku-Band Antennas)**
<http://www.antcom.com/documents/catalogs/LSC-BandAntennas2.pdf>
<http://www.antcom.com/documents/catalogs/XMorSIRIUSAntennas.pdf>
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<http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf> **(Antenna Mounts/Adapters/O-Rings/Gaskets)**
<http://www.antcom.com/documents/catalogs/CableAssemblies1.pdf>
<http://www.antcom.com/documents/catalogs/RHCP-LHCP-V-H-L1L2GPSAntennas.pdf>
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http://www.antcom.com/documents/catalogs/Antcom_Sextant_Port_Antennas.pdf
http://www.antcom.com/documents/catalogs/05_Antcom_CRPA_L1L2_GPS_Antenna_Array_for_E_mailing.pdf



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- 1) **ISO 9001-2008** : Registered through SGS
- 2) **TSO C-144**: Certified by FAA
- 3) **Environmental**: RTCA/DO-160D, TSO C144
- 4) **Lightning**: DO-160F, Direct Effects , Section 23
- 5) **Electrical**: TSO C144, RTCA/DO-228/DO-254, Mil-STD-461F
- 6) **CE**: EMC Directive 89/336/EEC (European Union) & 47CFR, Part 15, Subpart B (FCC)
- 7) **EMC/Emission**: EUROPEAN STANDARD EN 55022: 2006 / UNITED STATES STANDARD 47 CFR PART 15, SUBPART B
- 8) **Immunity**: EUROPEAN STANDARD EN 55024: 1998, Amendment A2: 2003
- 9) **Pick/Place, Soldering, Circuit Boards**: IPC JSTD-001D, IPC-A-610D, ESD-STD-20.20, JESD-625a, IPC-A-610C Class 3
- 10) **Printed Circuit Board (PCB)**: IPC-A-600G.
- 11) **Connectors/Adapters/Cables**: Mil-PRF-39012/55339, IPC-A-620A, IPC JSTD-001D
- 12) **Stainless Steel Material for Screws**: DFARS 252-225-7014/DFARS 225.872-1, and MS Standards.
- 13) **Aluminum Material**: Al6061-T6 per ASTM-B-221.
- 14) **Chem Film**: Mil-C-5541F Type I Class 1A for Yellow, Type II Class 1A for Clear (ROHS).
- 15) **Black Anodize**: MIL-A-8625F Type II Class II.
- 16) **REACH Compliance**: SVHC Candidate List Published by European Chemical Agency (ECHA) on Oct-28-2008 Regarding Regulation (EC) No 1907/2006 Concerning REACH

CE Test Reports:

http://www.antcom.com/documents/catalogs/Antcom_Antenna_CE_Approval_Test%20Report_1_of_2.pdf

http://www.antcom.com/documents/catalogs/Antcom_Antenna_CE_Approval_Test%20Report_2_of_2.pdf

EMI/EMC/Emission/Immunity/High Power Test Reports:

http://www.antcom.com/documents/catalogs/Antcom_Antenna_MIL_STD_461E_EMI_Test_Report_antc1853.pdf

http://www.antcom.com/documents/catalogs/Antcom_Antenna_MIL_STD_461F_Electromagnetic_Susceptibility_Test_Report_antc1897.pdf

http://www.antcom.com/documents/catalogs/EMC_Test_Report1_Feb_29_08_SC801023_01.pdf

http://www.antcom.com/documents/catalogs/EMC_Test_Report2_Feb_29_08_SC801023_01.pdf

http://www.antcom.com/documents/catalogs/Immunity_Test_Report3_Feb_29_08_SC801023_01.pdf

\\0-Antcom's Products\Quality Control Information\TSO, EMI, FCC, CE, and Other Enviromental Qual Test Data\

High Power Test Report for ATP-Mini-Qual-GPS, Antcom's Paveway Antenna, Dec-19-06.pdf

Lightning Test Reports:

http://www.antcom.com/documents/catalogs/Antcom_Lightning_Test%20Report_TR056159.pdf

http://www.antcom.com/documents/catalogs/Antcom_5B_Antenna_DO_160F_Lightning_P_Static_Test_Report_TR056376_Dec_28_09.pdf

Environmental Test Report:

http://www.antcom.com/documents/catalogs/Antcom_5B_Antenna_DO_160D_Test_Report_antc7764_Rev1_Jan_10_10.pdf

http://www.antcom.com/documents/catalogs/Antcom_DO_160D_Test.pdf

http://www.antcom.com/documents/catalogs/Antcom_Antenna_MIL_STD_810C_D_Test_Report_antc1852_2.pdf

http://www.antcom.com/documents/catalogs/Vibration_Test_Report_for_Antcom_C130_Sextant_Port_Antenna.pdf

\\0-Antcom's Products\Quality Control Information\TSO, EMI, FCC, CE, and Other Enviromental Qual Test Data\Antcom Antenna REACH Compliance.pdf

NGS (NOAA) Government Calibration Test Report for GPS/GNSS Antennas:

http://www.ngs.noaa.gov/cgi-bin/query_cal_antennas.prl?Model=ACC

Contacts:

Website: <http://www.antcom.com>; RFQ/RFP: sales@antcom.com; Send POs: sales@antcom.com; Order Status: status@antcom.com; Tech Support: tech@antcom.com; RMA: rma@antcom.com, QA: qa@antcom.com, Accounting: accounting@antcom.com; Purchasing: purchasing@antcom.com, HR: hr@antcom.com, Facility: facility@antcom.com



Certificate US08/5275

The management system of

Antcom Corp

367 Van Ness Way Suite 602
Torrance, CA, 90501
United States

has been assessed and certified as meeting the requirements of

ISO 9001:2008

For the following activities:

Design, Manufacturer and Testing of Antennas and RF/Microwave Components.

Further clarifications regarding the scope of this certificate and the applicability of ISO 9001:2008 requirements may be obtained by consulting the organization.

This certificate is valid from 4 November 2008 until 3 November 2011 and remains valid subject to satisfactory surveillance audits. Recertification audit due a minimum of 60 days before the expiration date. Issue 2 : 6 October 2010. Certified since 4 November 2008.

Authorized by



Zachary C. Pivamik
Accreditation Manager, North America

SGS US Testing Company Inc., Systems & Services Certification
201 Route 17 North, Rutherford, NJ 07070
t (201) 508-3000 f (201) 935-4555 www.us.sgs.com

This certificate remains the property of SGS and shall be returned upon request

Page 1 of 1



Year of Incorporation:
Oct-02-1996 (California Corp)

TAX ID: 33-0731772

Business License: BUS-0114500

Sale Permit: SR AS 97-286780

DUNS: 008912367 (3A1)

Cage Code: 3CVE1

ITAR: Registered

NAICS: 334220

SIC: 3663

ECCN: 5A991.b

HTS: 8529104000

