



Iridium and Iridium/GPS Antennas: Pictures, Outline Drawings, Specifications

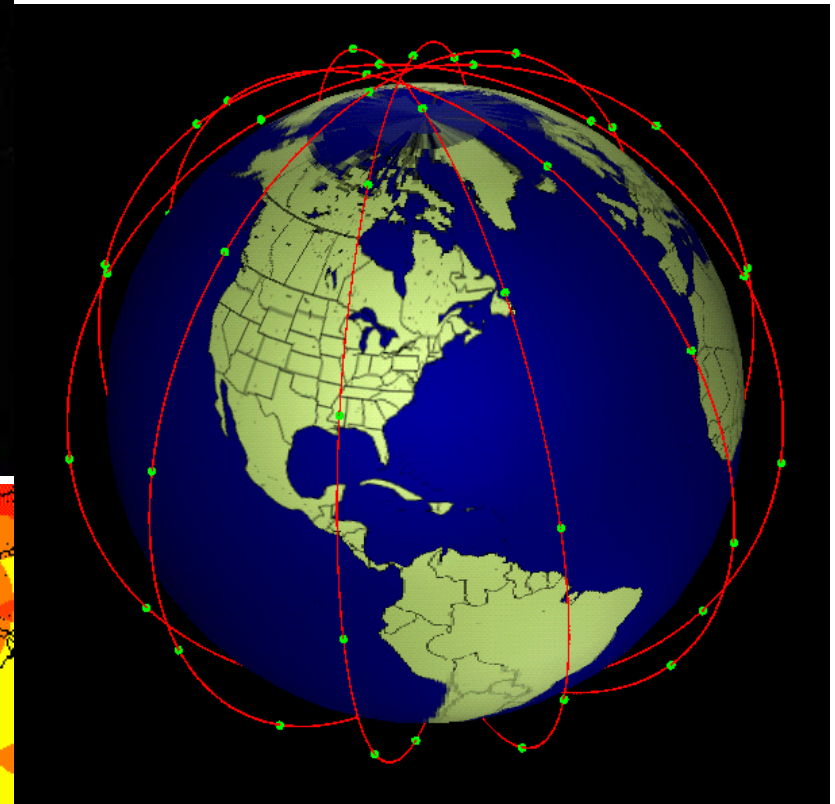
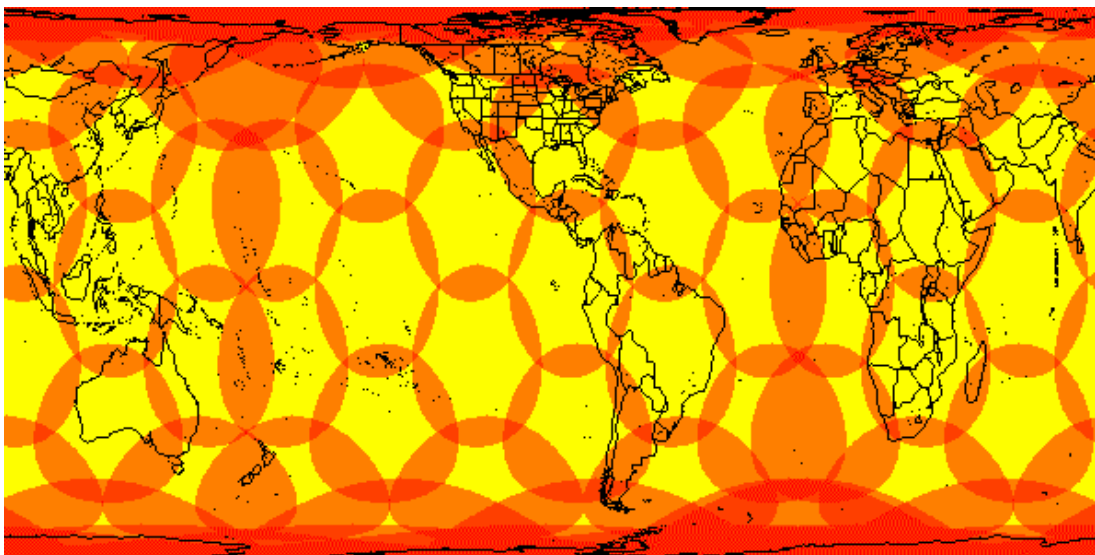
IRIDIUM



IRIDIUM World Coverage Service



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66 Satellites in Lower Earth Orbits



**IRIDIUM-GPS-Glonass-Inmarsat Helix Antenna, P/N: S5XIR16RR-P-XT-X:
3.5"/2.6" Diameter x 4.5" Tall, 1"-14 Pipe/Magnetic Mount Antenna Configurations**



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



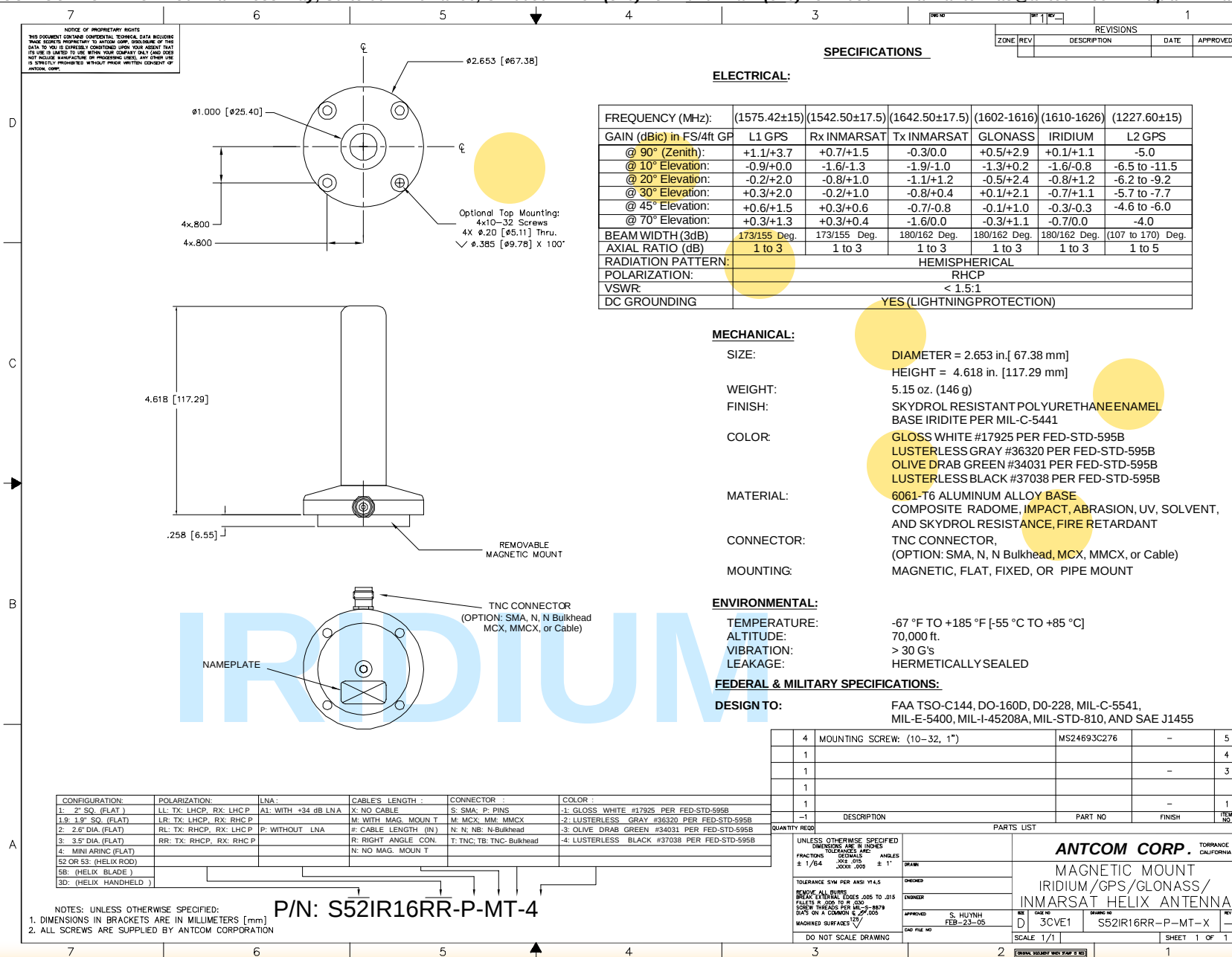
**P/N: S52IR16RR-P-MT-1 (White),
S52IR16RR-P-MT-4 (Black),
S52IR16RR-P-MT-3 (Green)
2.6" Diameter x 4.5" Tall**

Hermetically Sealed, Designed for Harsh Environment Applications.

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



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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-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)

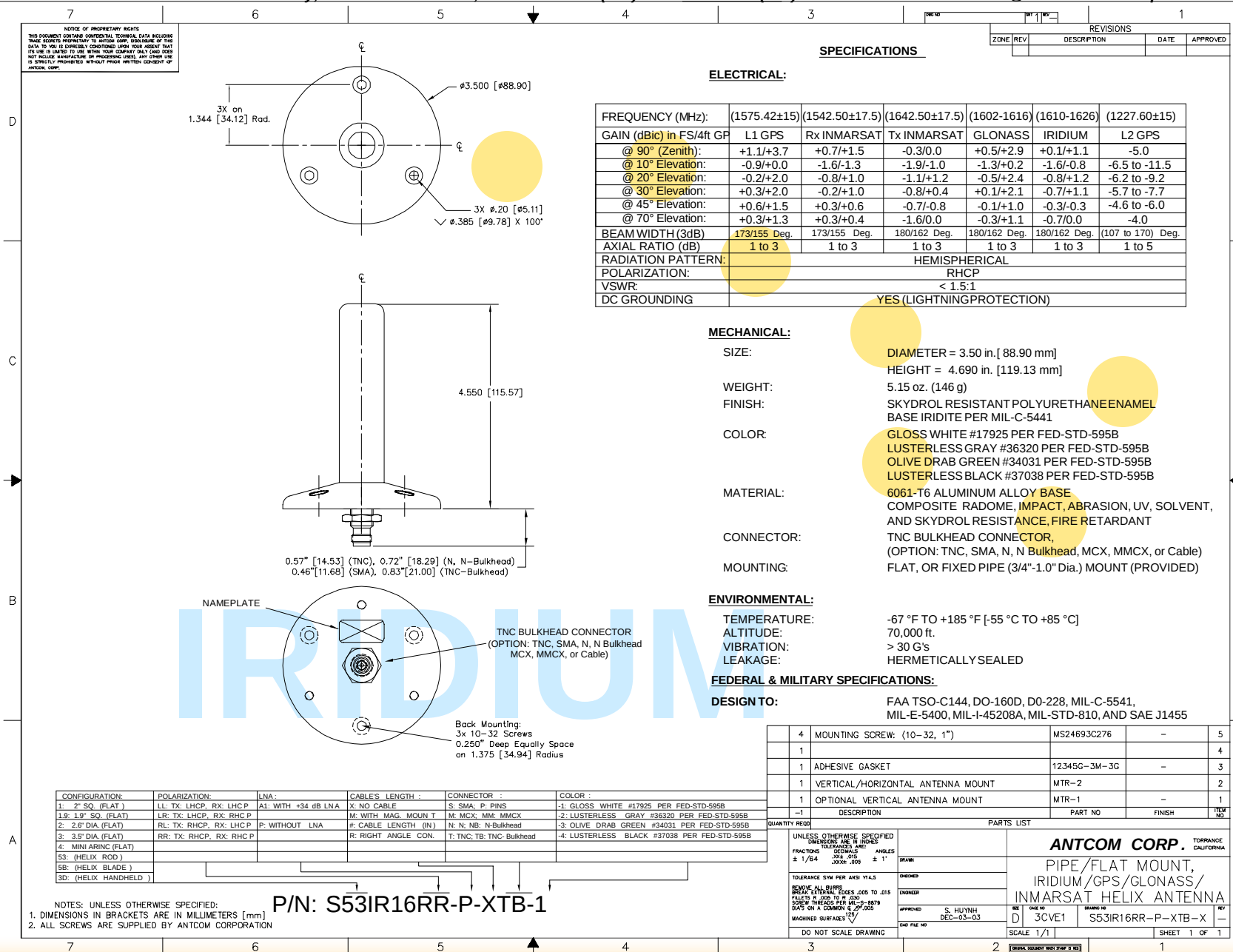


IRIDIUM Antenna, P/N: S53IR16RR-X-XX-X:

3.5" Diameter x 4.5" Tall, Pipe/Flat Mount Configurations



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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.**

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



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



P/N: S2IR16RR-P-36MT-3



P/N: S2IR16RR-P-17MT-1



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



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P/N: S2IR16RR-P-17MT-1



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



P/N: S2IR16RR-P-MS-4 (Black)



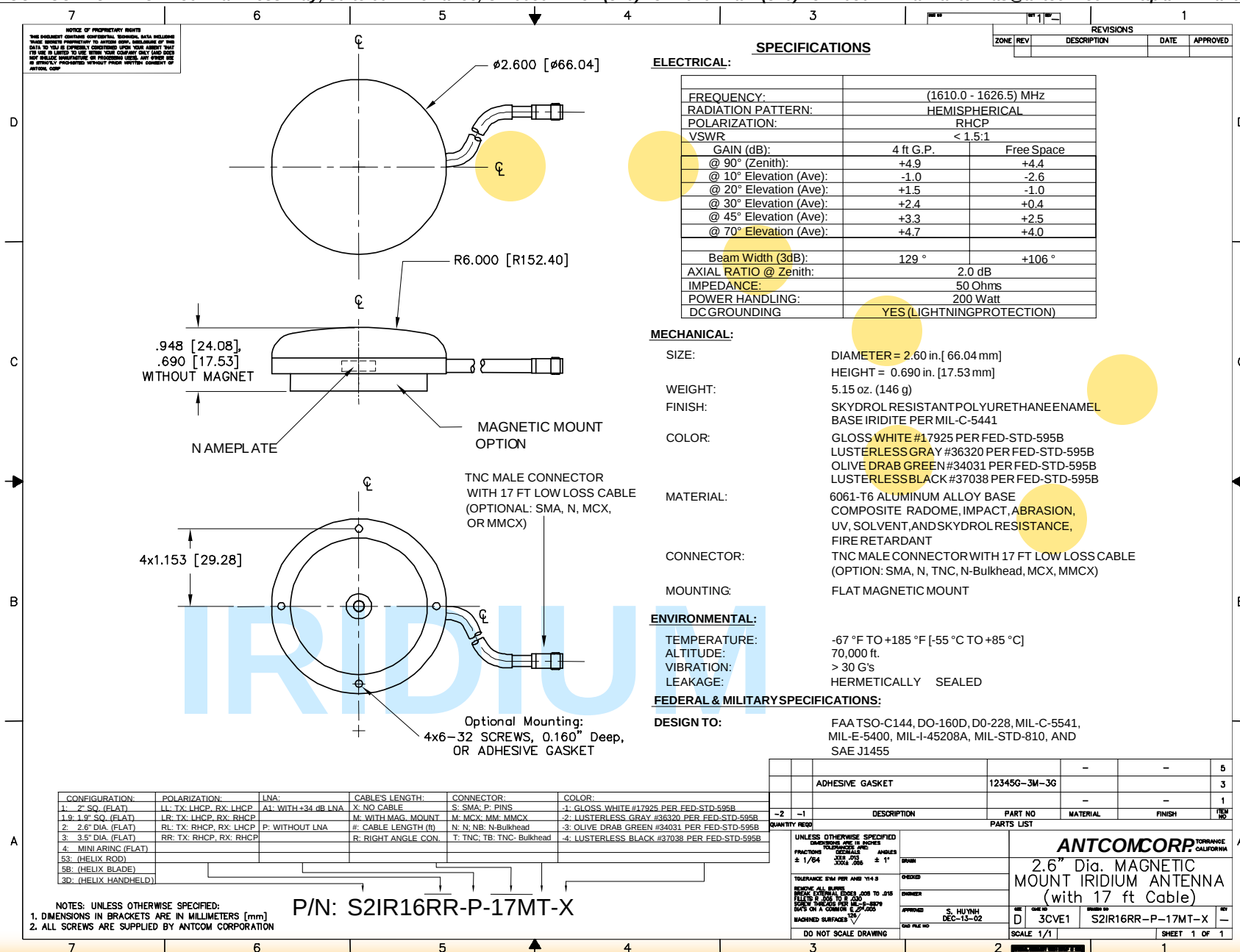
P/N: S2IR16RR-P-MS-3 (Green)

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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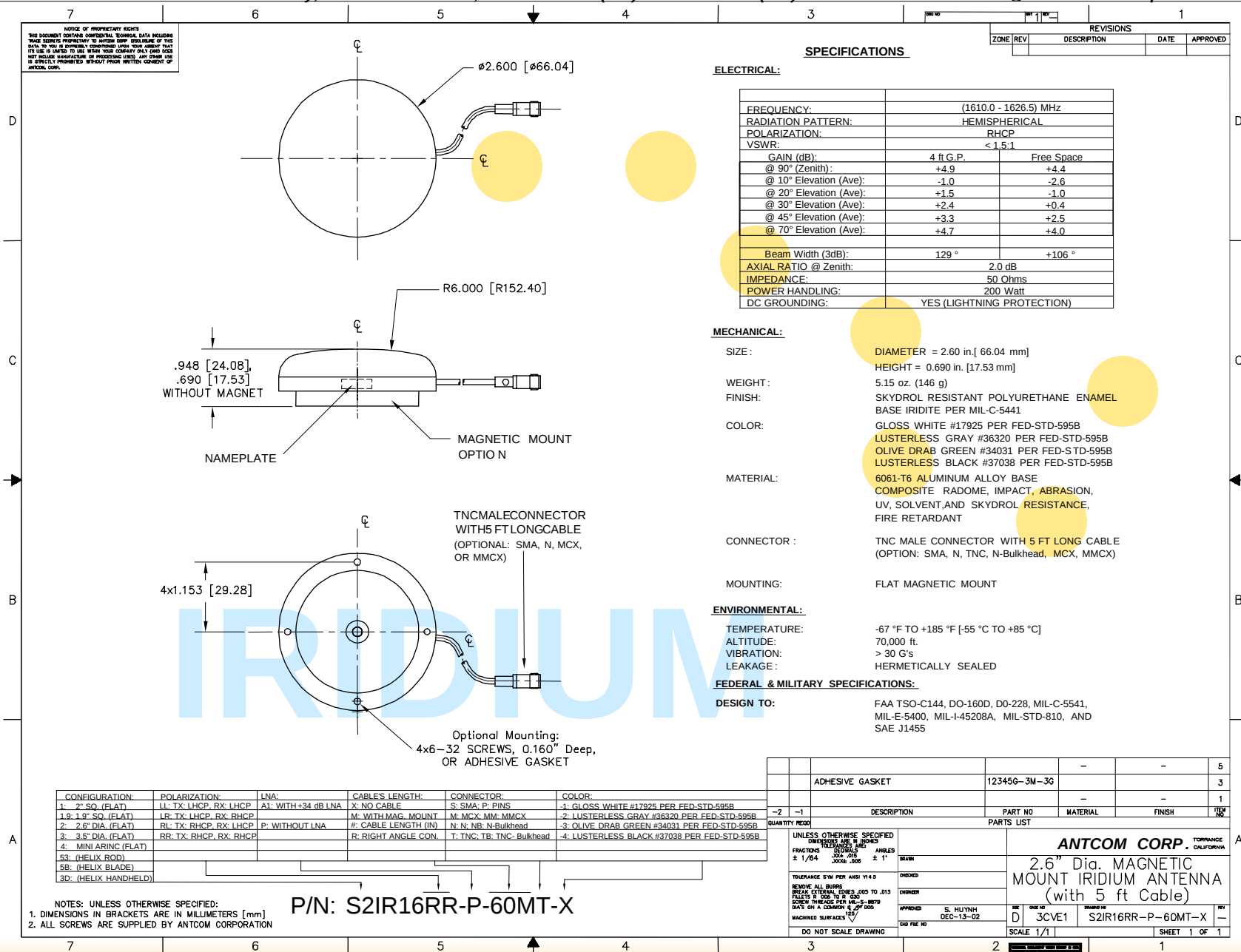




IRIDIUM Approved Antennas, P/N: S2IR16RR-P-60MT-X: 2.6" Diameter, Magnetic Mount Configurations with Low Loss Cable



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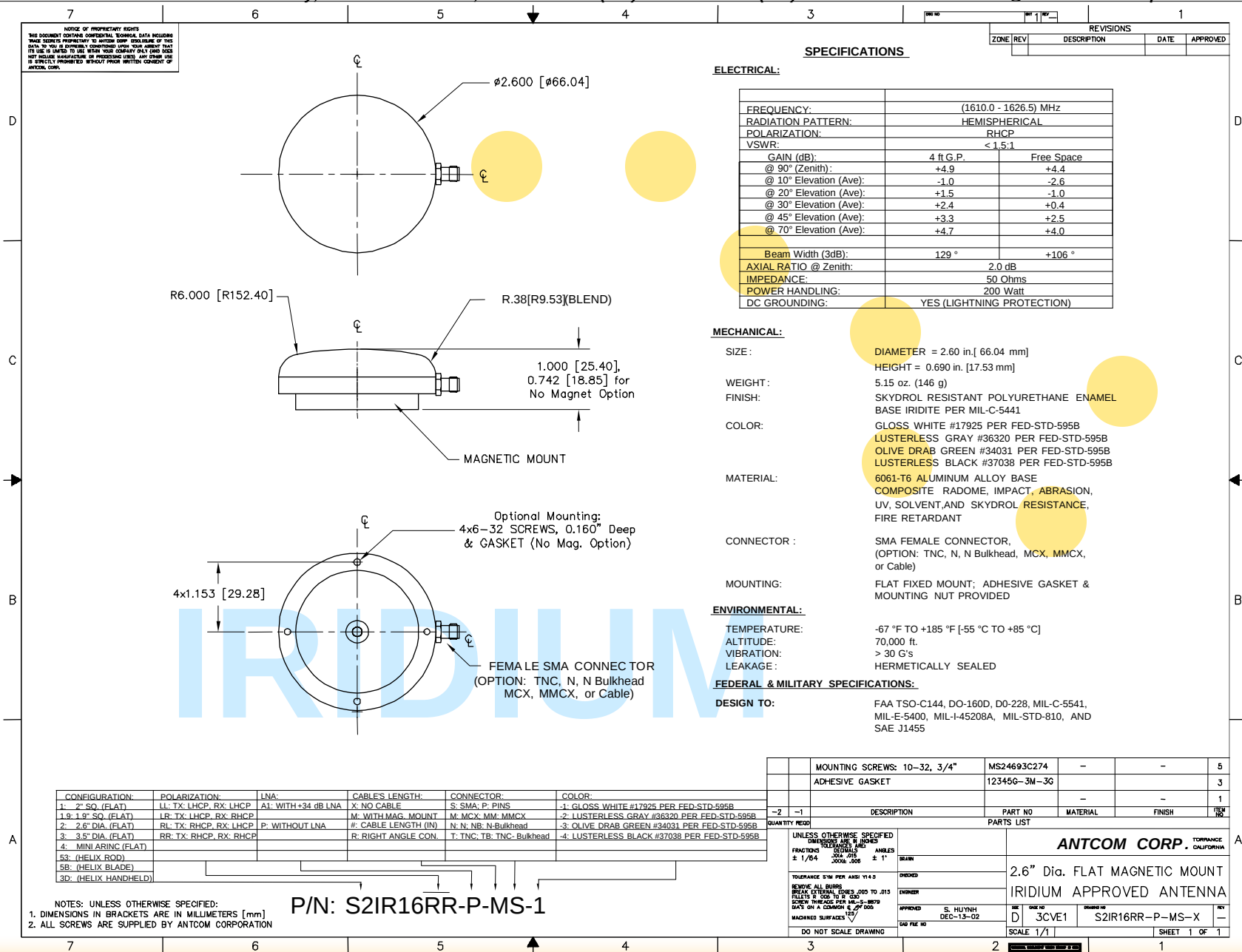


IRIDIUM Approved Antennas, P/N: S2IR16RR-P-MS-X:

2.6" Diameter, Magnetic Mount Configuration



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IRIDIUM Approved Antenna, P/N: S2IR16RR-P-XTB-1 : 2.6" Diameter, Bulkhead/Back Mount Configurations



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IR



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: 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-2
(Gray)



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



P/N: S2IR16RR-P-XTB-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)



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



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



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



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



7 6 5 4 3 2 1

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1. 2" SQ. (FLAT)
1.9" 1.9" SQ. (FLAT)
2. 2.6" DIA. (FLAT)
3. 3.5" DIA. (FLAT)
4. MINI ARINC (FLAT)
5B. (HELIX BLADE)
3D. (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:
X: NO CABLE
M: WITH MAG. MOUNT
#: CABLE LENGTH (IN)
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 ANTCOM CORPORATION

P/N: S2IR16RR-P-XTB-1

OPTIONAL MOUNTING:
4X 6-32 UNC-2B,
0.130" Deep,
90° Apart on
1.153" Radius; &
ADHESIVE GASKET

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

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

0.583 [14.81]
0.102 [2.59]
0.143 [3.63]

R6.000 [R152.40]
Ø2.600 [Ø66.04]

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 +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 = 0.583 in. [14.81 mm]
WEIGHT: 4.00 oz. (113 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; 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, DO-228, MIL-C-5541,
MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND
SAE J1455

MOUNTING SCREWS: 10-32, 3/4"
ADHESIVE GASKET

MS24693C274
123456-3M-3G

DESCRIPTION PART NO MATERIAL FINISH

QUANTITY REQD PARTS LIST

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
FRACTIONS DECIMALS TOLERANCES ANGLES
± 1/64 .001 .005 .005 ± 1°

TOLERANCE 5/16 PER ANSI Y14.5
REMOVE ALL BURRS
BREAK OFFTOP EDGES .005 TO .015
FILLERS IF .005 TO .015 GAP
CROWN THREADS PER MIL-F-8879
DATA ON A COMMON 8/10/00
MACHINED SURFACES 1/2

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

2.6" Dia. FLAT FIXED MOUNT
IRIDIUM APPROVED ANTENNA

D 3CVE1 S2IR16RR-P-XTB-X

SCALE 1/1

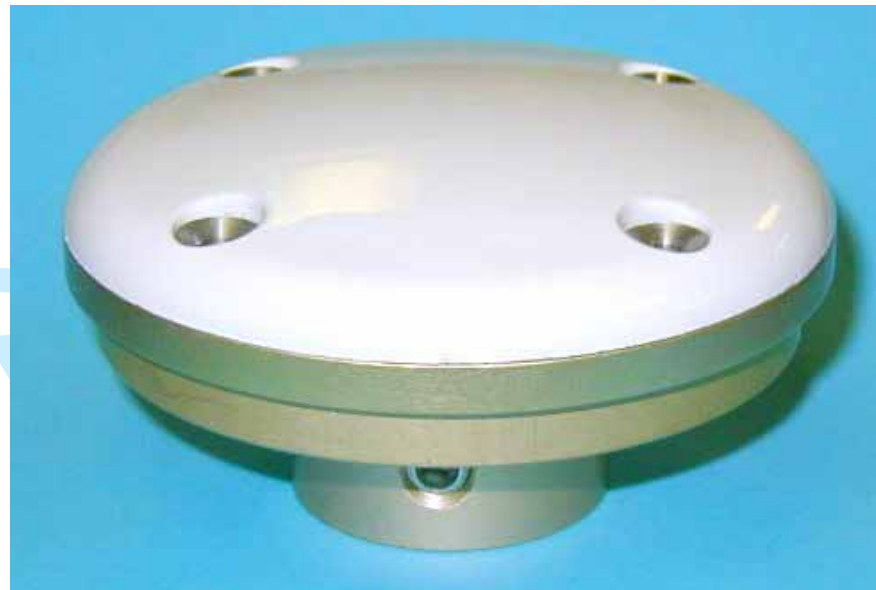
SHEET 1 OF 1



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: 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.

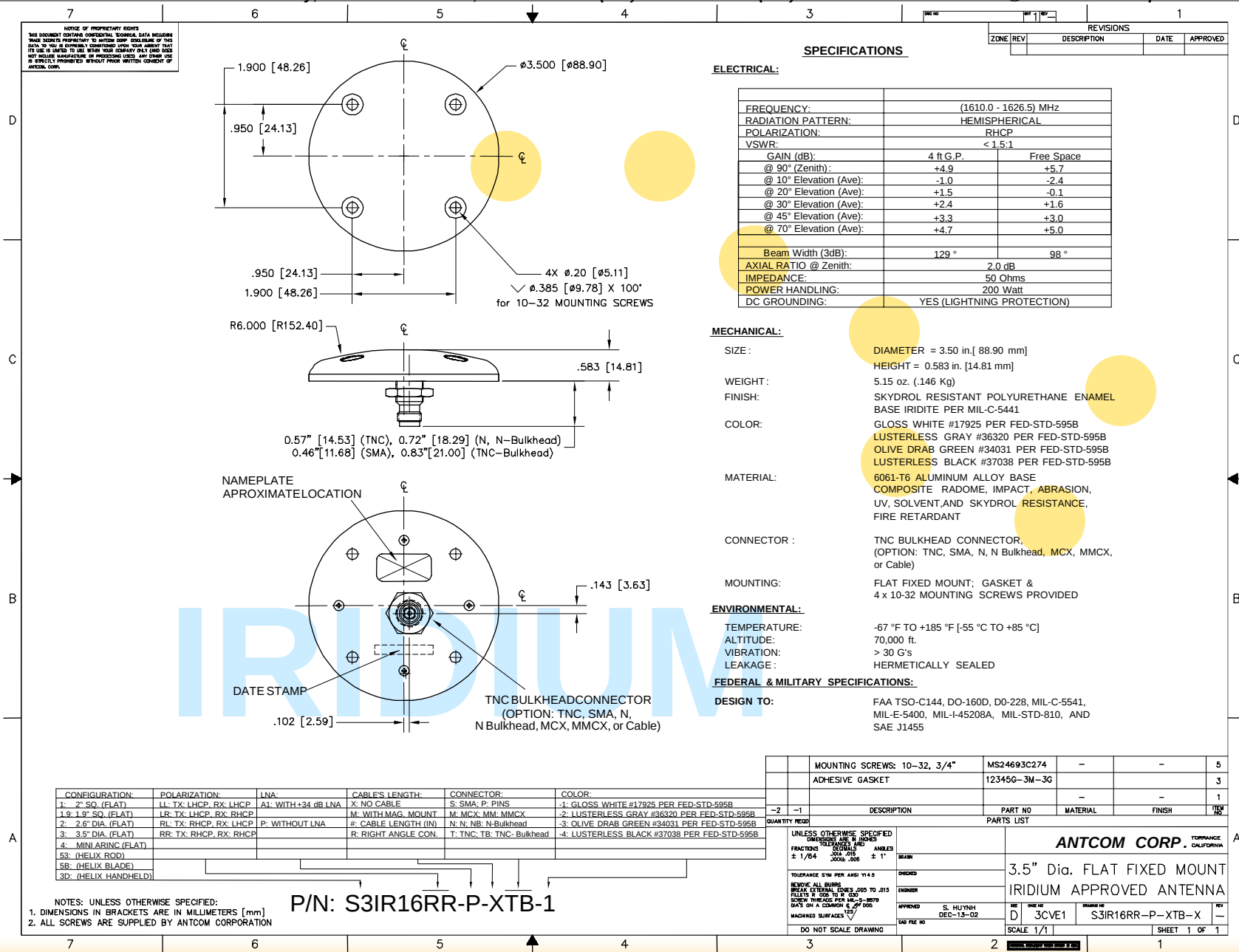
Connector is Available in SMA, MCX, MMCX, TNC, TNC-B, N, or N-Bulkhead (See Drawing)



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

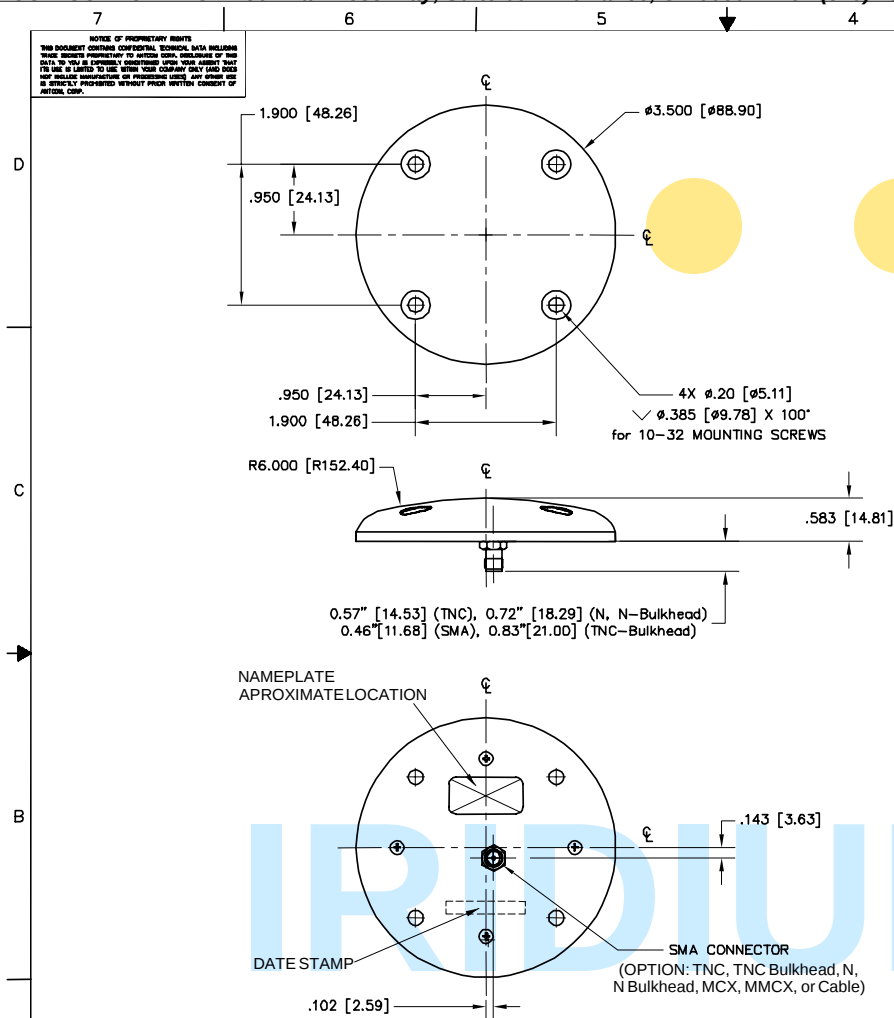


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SPECIFICATIONS

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 = 3.50 in.[88.90 mm]
WEIGHT :	HEIGHT = 0.583 in.[14.81 mm] 5.15 oz. (146 Kg)
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/NTNC- 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, D0-228, MIL-C-5541,
MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND
SAE J1455

CONFIGURATION:	POLARIZATION:	LNA:	CABLE'S 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	M. CABLE LENGTH (IN)	N. N. NB: 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)					
58. (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-XS-4

		MOUNTING SCREWS: 10-32, 3/4"	MS24693C274	-	-	5
		ADHESIVE GASKET	12345G-3M-3G	-	-	3
				-	-	1
-2	-1	DESCRIPTION	PART NO	MATERIAL	FINISH	1
QUANTITY REQD			PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES $\pm 1/64$ $\pm .005$ $\pm 1^\circ$ TOLERANCE .010 PER ANGLE HOLEING ALL SURFACES SURFACE FINISH: 320 TO #16 SURFACES TO 2.00 SURFACES TO 1.00 SURFACES TO .500 SURFACES TO .250 SURFACES TO .125 SURFACES TO .063 SURFACES TO .032 SURFACES TO .016 SURFACES TO .008 SURFACES TO .004 SURFACES TO .002 SURFACES TO .001 FINISHED SURFACES			ANTCOMCORP ANTHONY T. CORP. CALIFORNIA 3.5" Dia. FLAT FIXED MOUNT IRIUM APPROVED ANTENNA DATE: 10-10-01 DRAWN BY: J. HUNTER CHECKED BY: J. HUNTER DATE: 10-10-01 QTY REQD: 1 QTY SUPPLIED: 1 SHEET 1 OF 1			



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



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IRIDIUM Antennas, P/N: S1.5BIR16RR-P-XX-X: (1.5" Sq. x 0.2" Thick), Small Size/Low Cost Configurations



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P/N: S1.5BIR16RR-P-XS-2



P/N: S1.5BIR16RR-P-26S-X

Cable is available in different length

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Connector is Available in SMA, MCX, MMCX,
TNC, TNC-B, N, or N-Bulkhead



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



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P/N: S1.5IR16RR-P-36S-2



P/N: S1.5IR16RR-P-24BMM-3



P/N: S1.5IR16RR-P-24BMM-3



P/N: S1.5IR16RR-P-36S-3



P/N: S1.5IR16RR-P-36S-3



P/N: S1.5IR16RR-P-XS-2

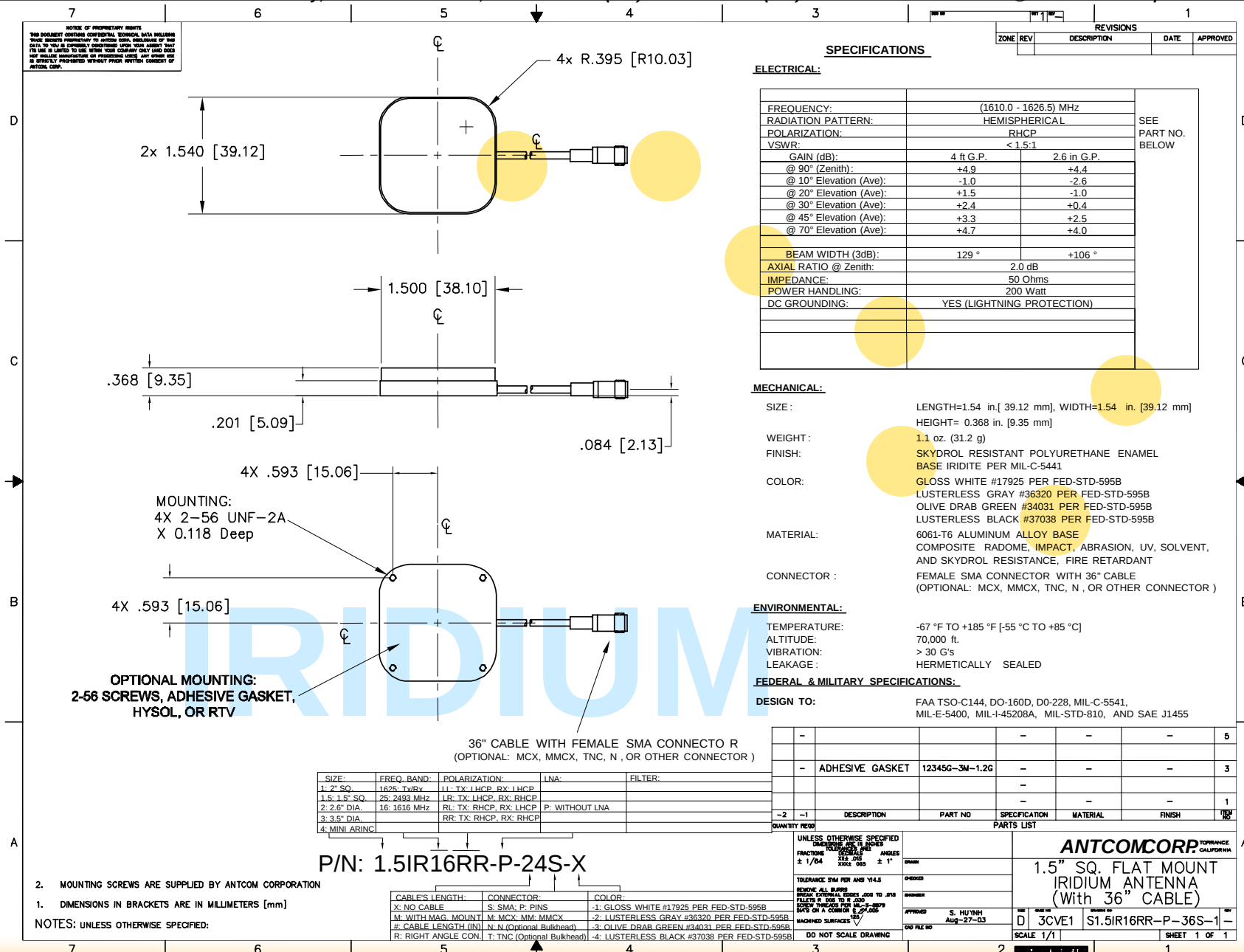
Other Connector Types, and Cables are Available (See Drawing)



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

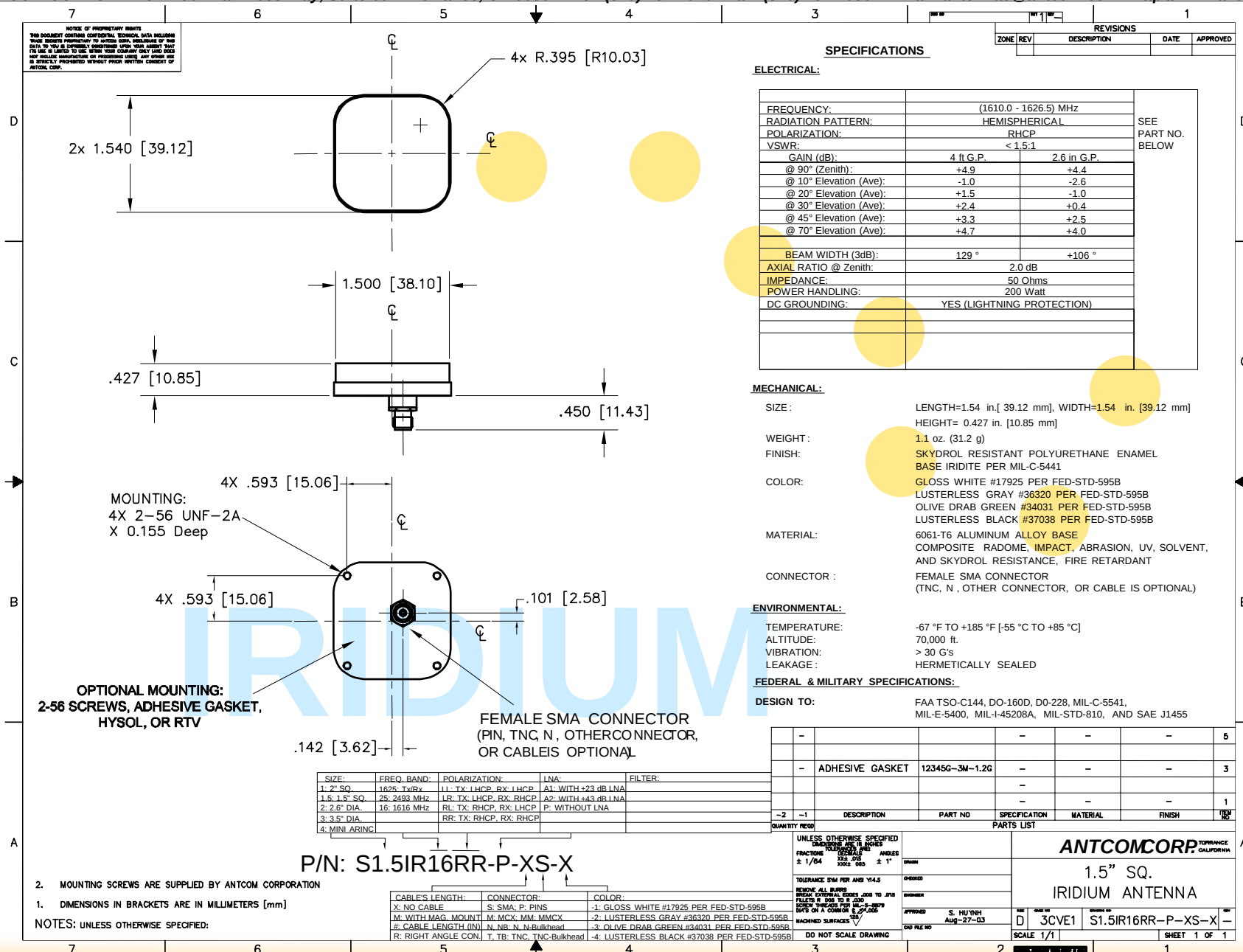


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IRIDIUM Approved Antennas, P/N: S4IR16RR-P-XX-X: (3.4" x 2.2") Mini Arinc Configurations



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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)

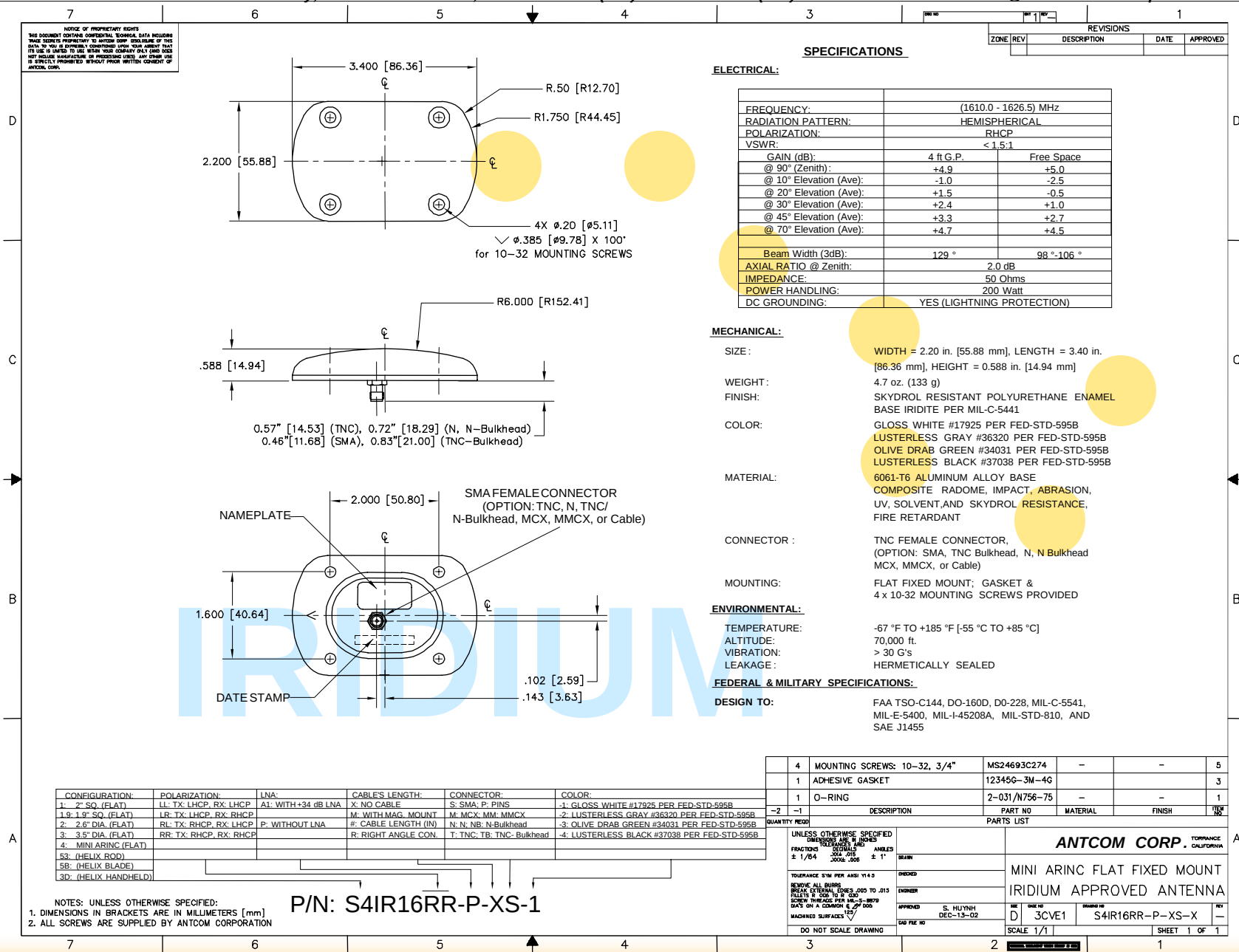
Hermetically Sealed, Designed for Hash Environment Applications. Connector is Available in SMA, MCX, MMCX, TNC, TNC-B, N, N-Bulkhead (See Drawing)



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



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



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S5BIR16RR-P-XT-2



S5BIR16RR-P-XT-1



S5BIR16RR-P-XT-2

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

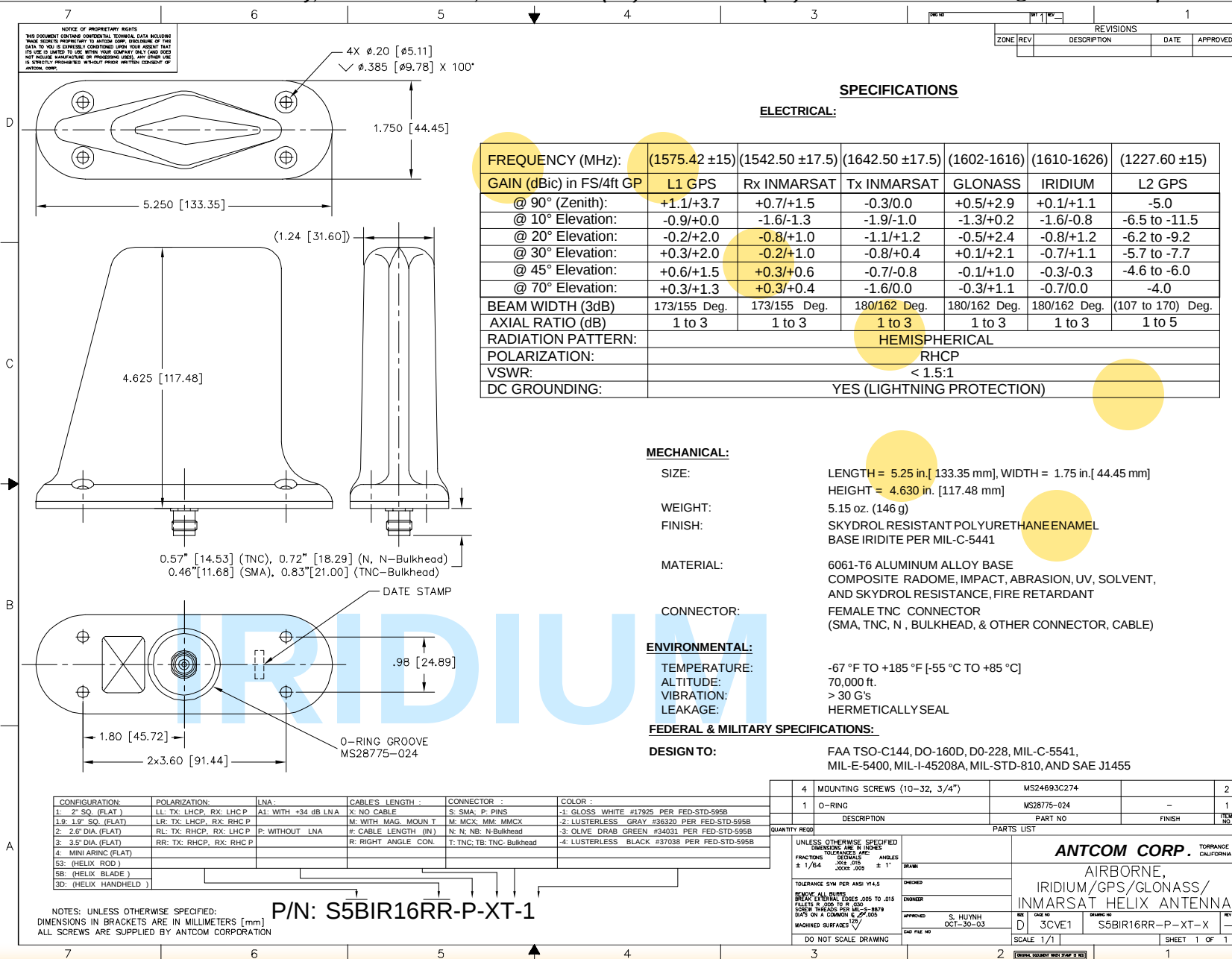
**Connector is Available in SMA,
MCX, MMCX, TNC, TNC-B, N, or
N-Bulkhead (See Drawing)**



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



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

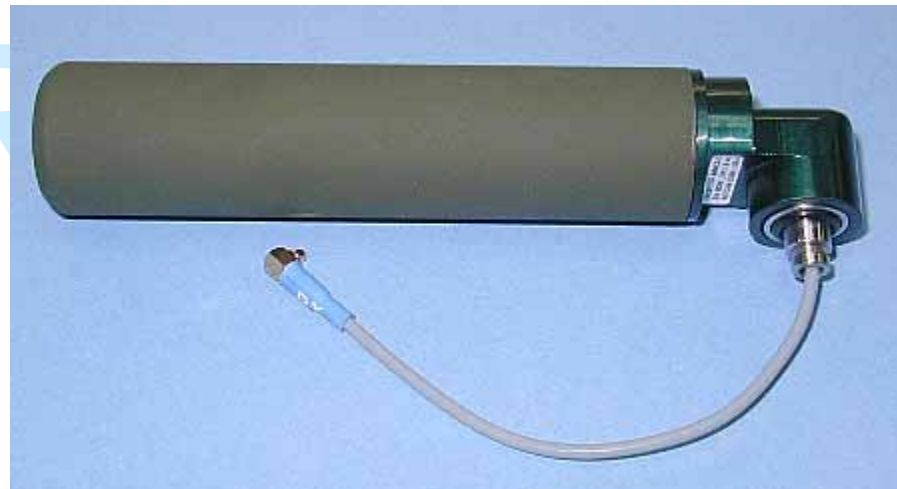


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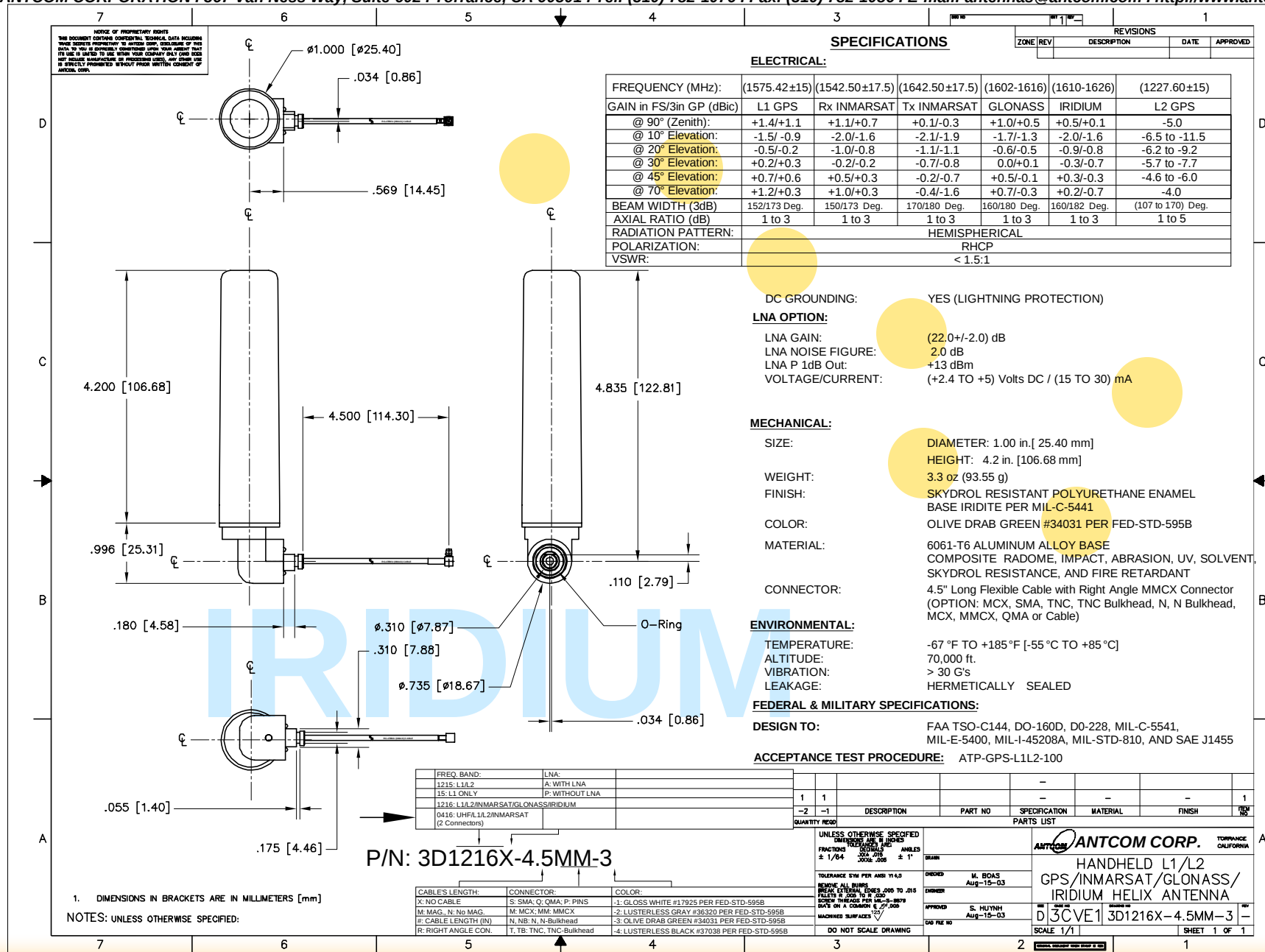
**Hermetically Sealed,
Designed for Harsh
Environment
Applications.**

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





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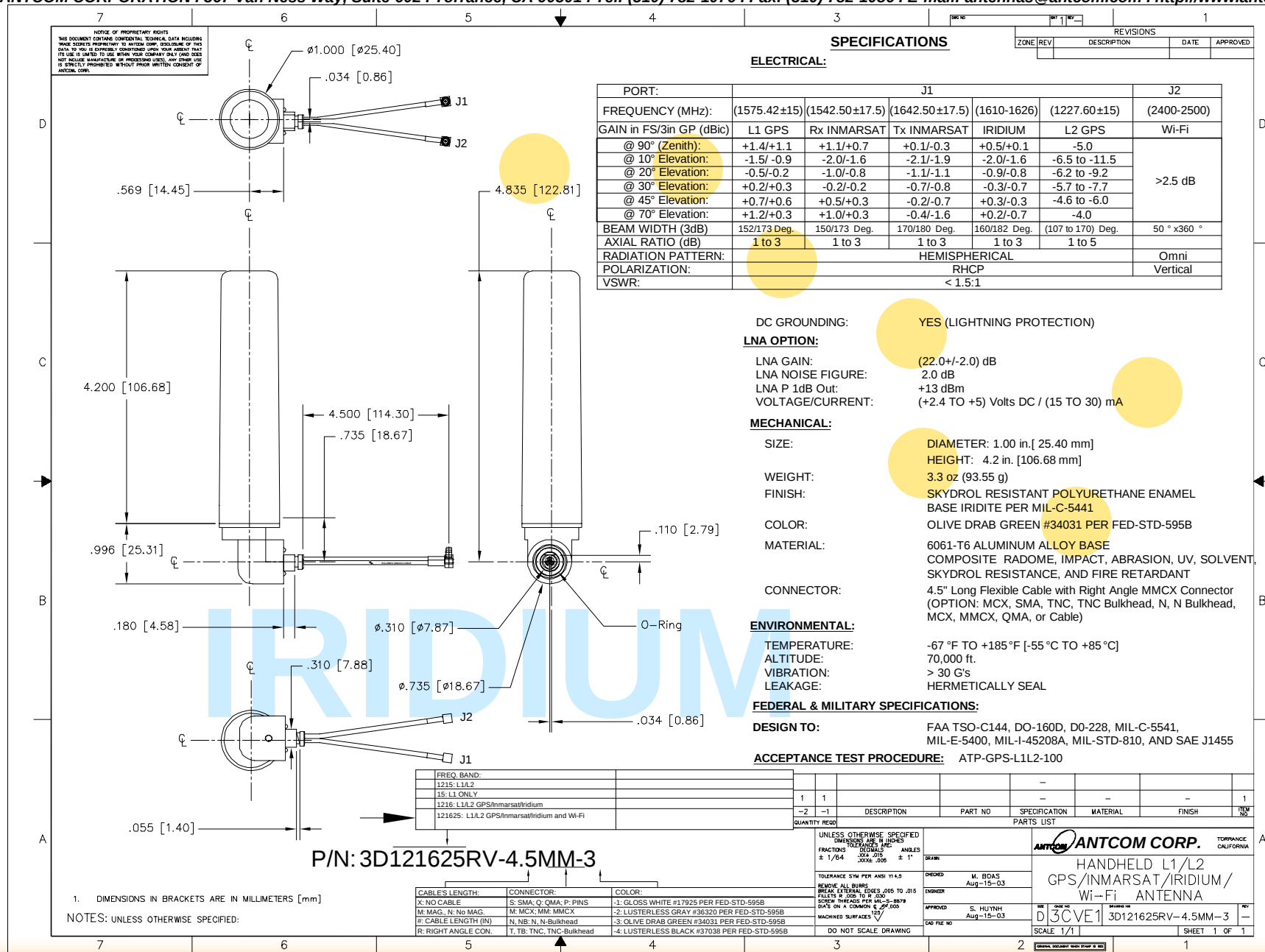


IRIDIUM/GPS/Wi-Fi Antennas, P/N: 3D121625RV-4.5MM-3:

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



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



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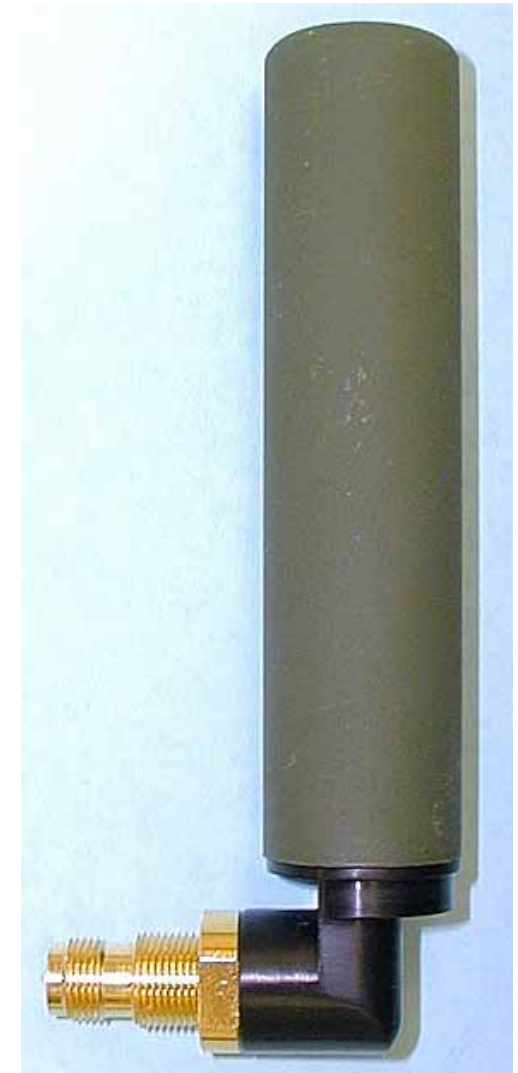
P/N: 3D1216P-XS-4,
Black, SMA



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



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



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

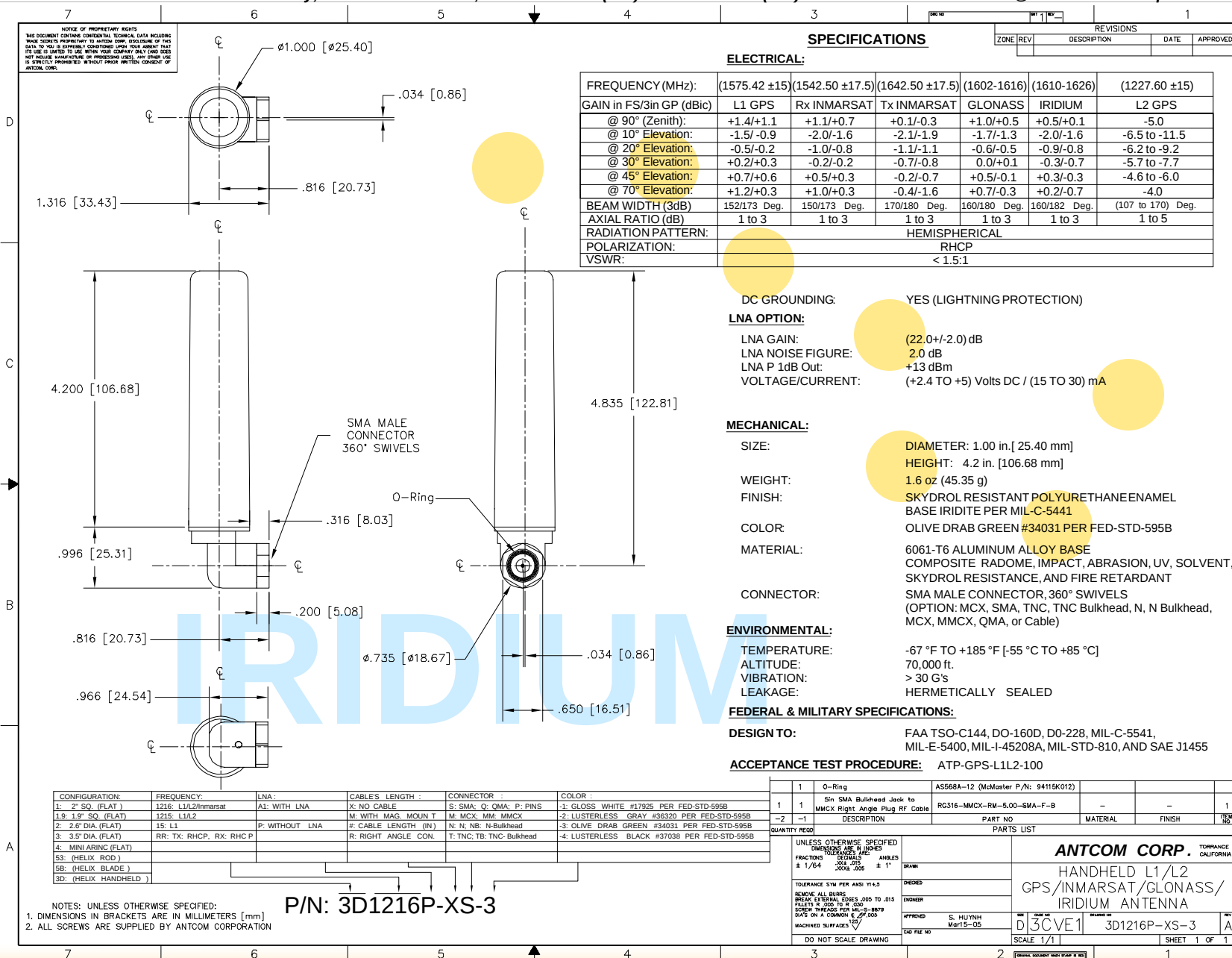


IRIDIUM Antennas, P/N: 3D1216P-XS-X:

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



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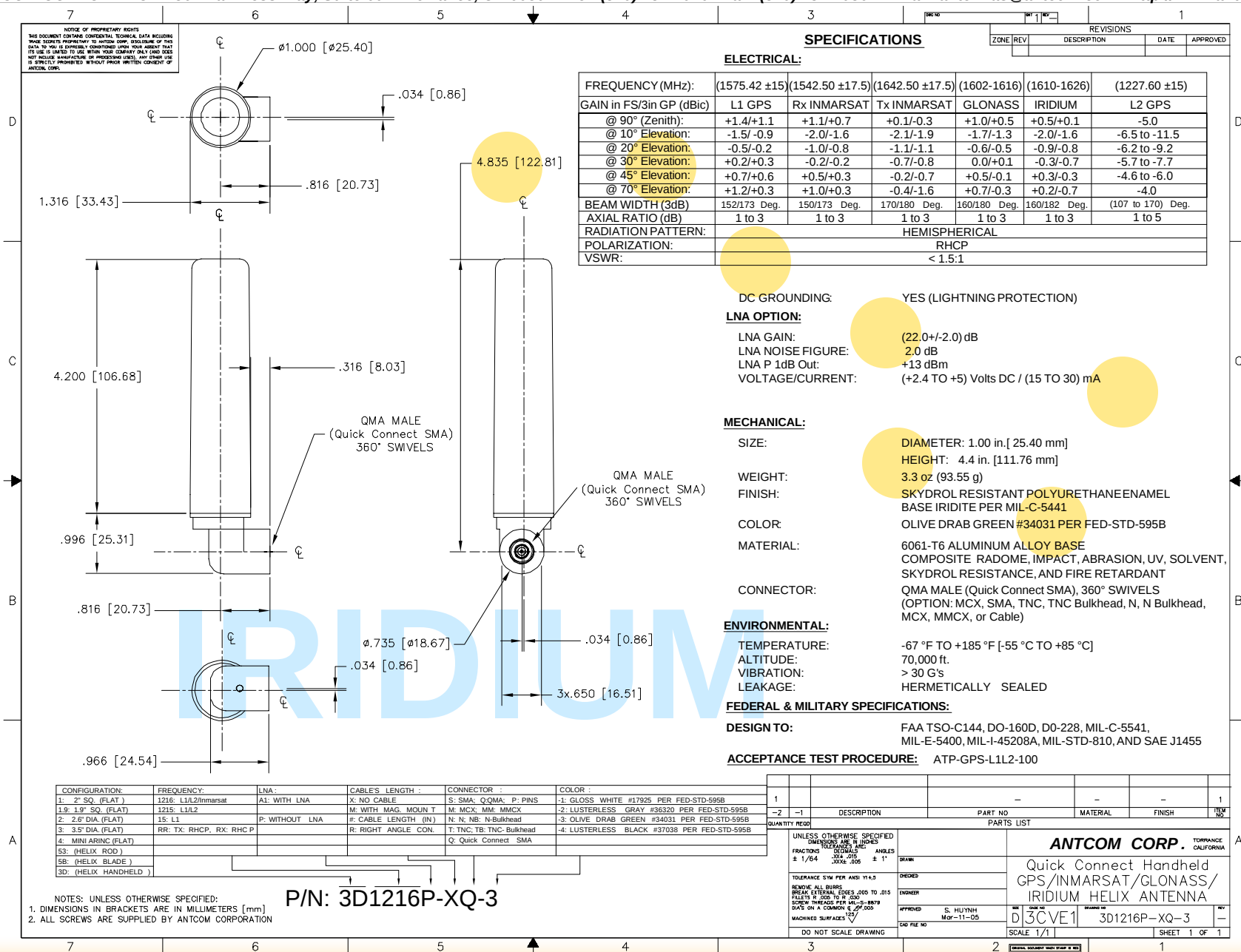


IRIDIUM Antennas, P/N: 3D1216P-XQ-X:

1" Diameter x 4.2" Tall, Quick Connect SMA, Swivel, Side Mount Configurations



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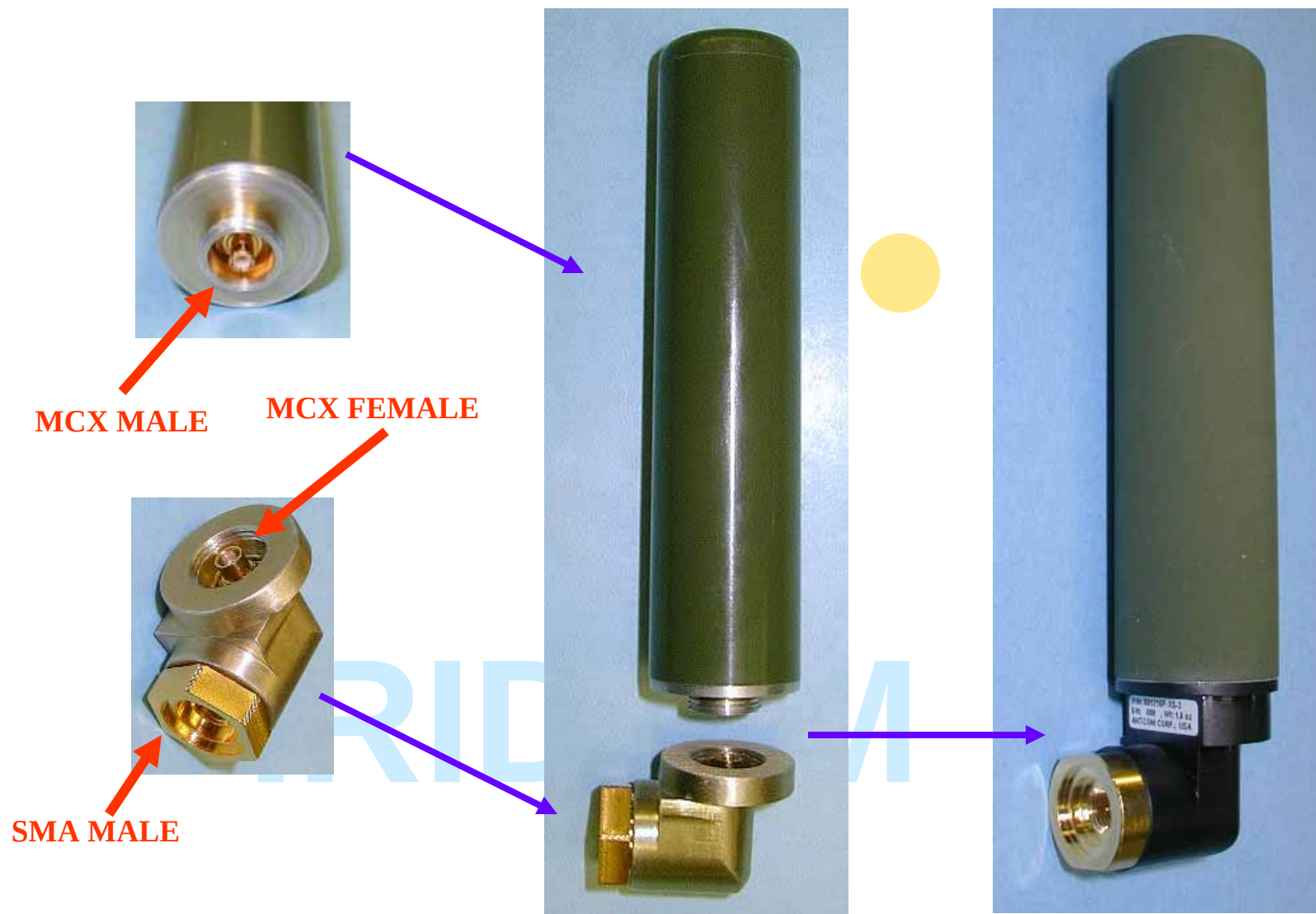




IRIDIUM/Inmarsat/Glonass & L1 or L1L2 GPS Antennas, P/N: 3D1216P-XMS-X:
1" Diameter x 4.2" Tall, Quick Connect MCX, Swivel, Side Mount Configurations



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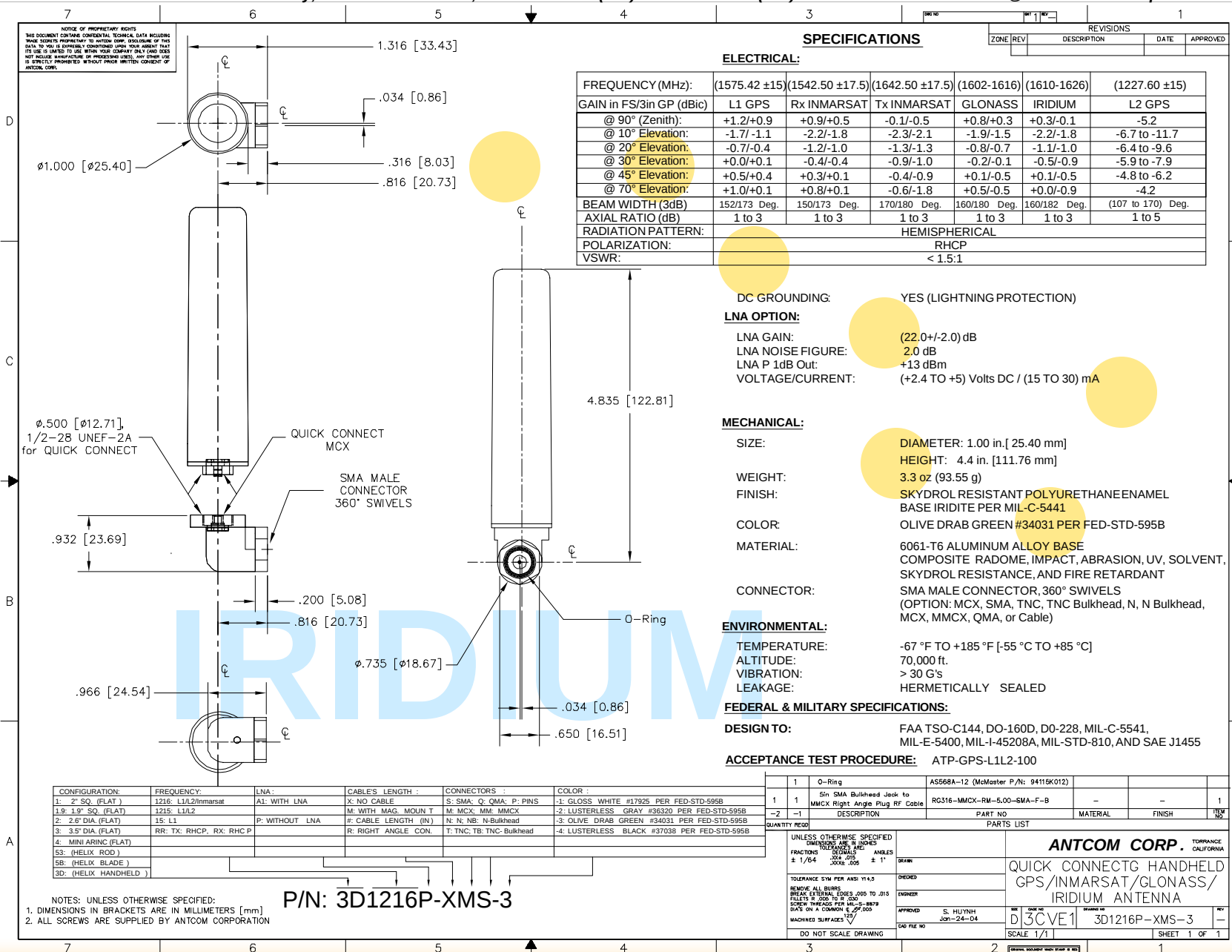




IRIDIUM/Inmarsat/Glonass & L1 or L1L2 GPS Antennas, P/N: 3D1216P-XMS-X: 1" Diameter x 4.2" Tall, Quick Connect MCX, Swivel, Side Mount Configurations



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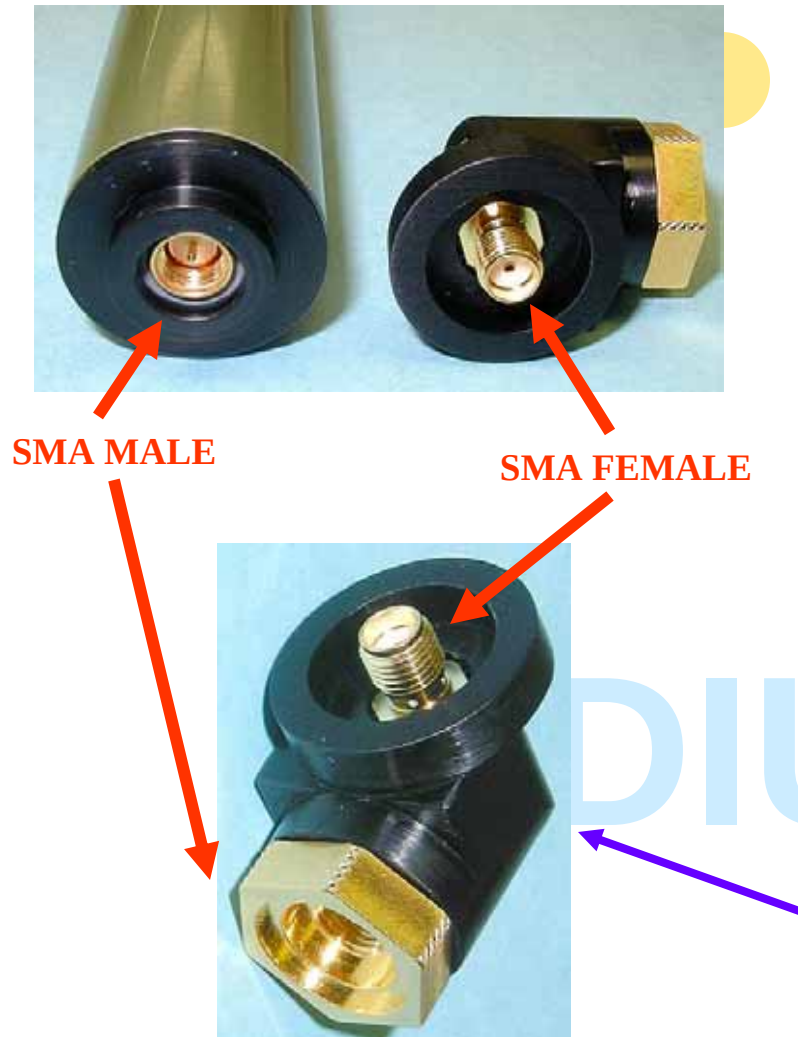




IRIDIUM/Inmarsat/Glonass & L1 or L1L2 GPS Antennas, P/N: 3D1216P-XSS-X:
1" Diameter x 4.2" Tall, Quick Connect SMA, Swivel, Side Mount Configurations



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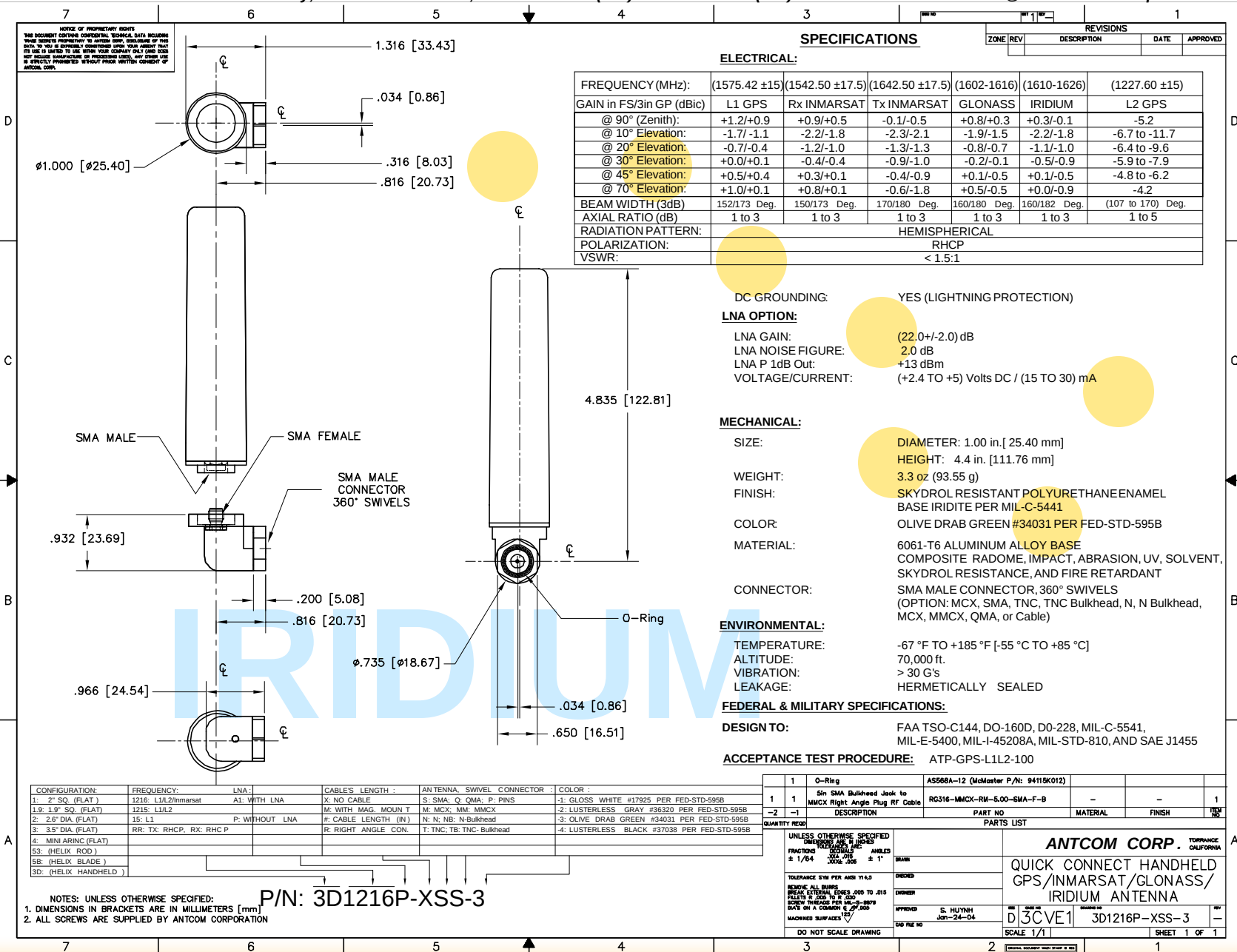




IRIDIUM/Inmarsat/Glonass & L1 or L1L2 GPS Antennas, P/N: 3D1216P-XSS-X: 1" Diameter x 4.2" Tall, Quick Connect SMA, Swivel, Side Mount Configurations



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IRIDIUM/Inmarsat/Glonass & L1 or L1L2 GPS Antennas, P/N: 3D1216P-XX-X-X
1" Diameter x 4.2" Tall, Threaded Bottom Mount Configurations



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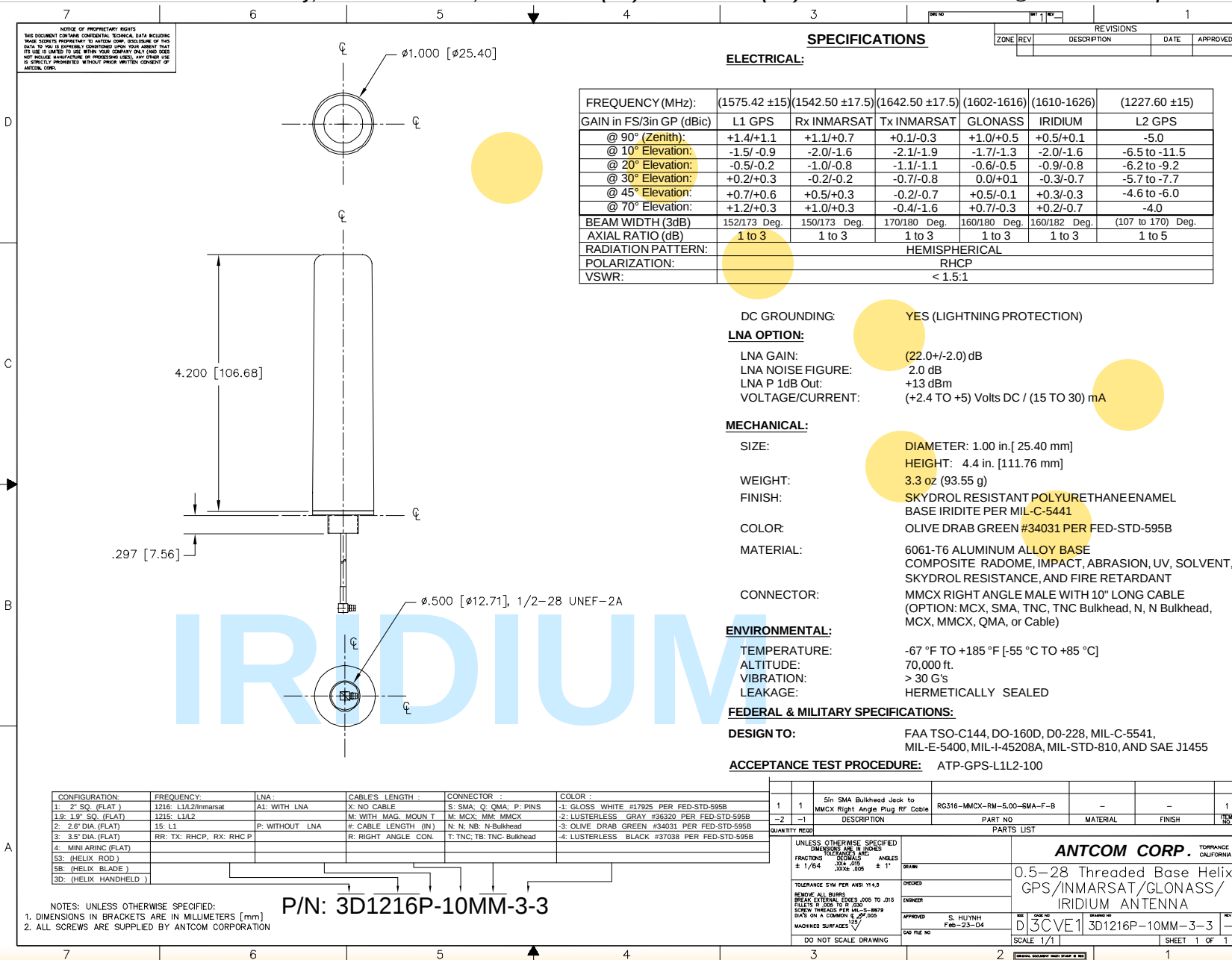


IRIDIUM Antennas, P/N: 3D1216P-10MM-X-3:

1" Diameter x 4.2" Tall, Threaded Bottom Mount Configuration



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IRIDIUM Antenna,

0.5" Diameter x 4.4" Tall, Threaded Bottom Mount Configuration



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Connector:
TNC-F



Connector:
SMA-F



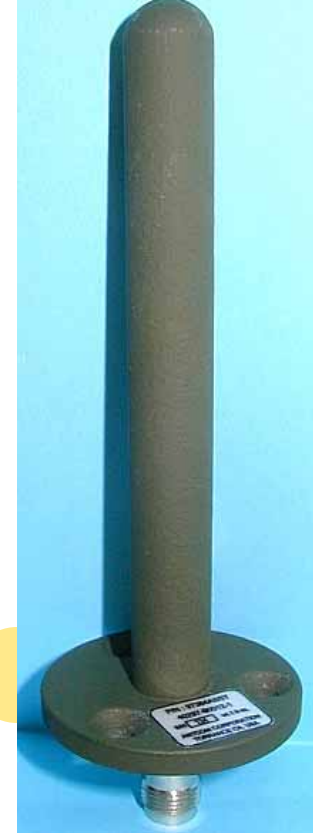
Connector:
TNC-M



Connector:
TNC-F



Connector:
SMA-F



0.52R1216P-XTB-4
4.4" Tall Rod
Configurations

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

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

Hermetically Sealed,
Designed for Harsh
Environment Applications.

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

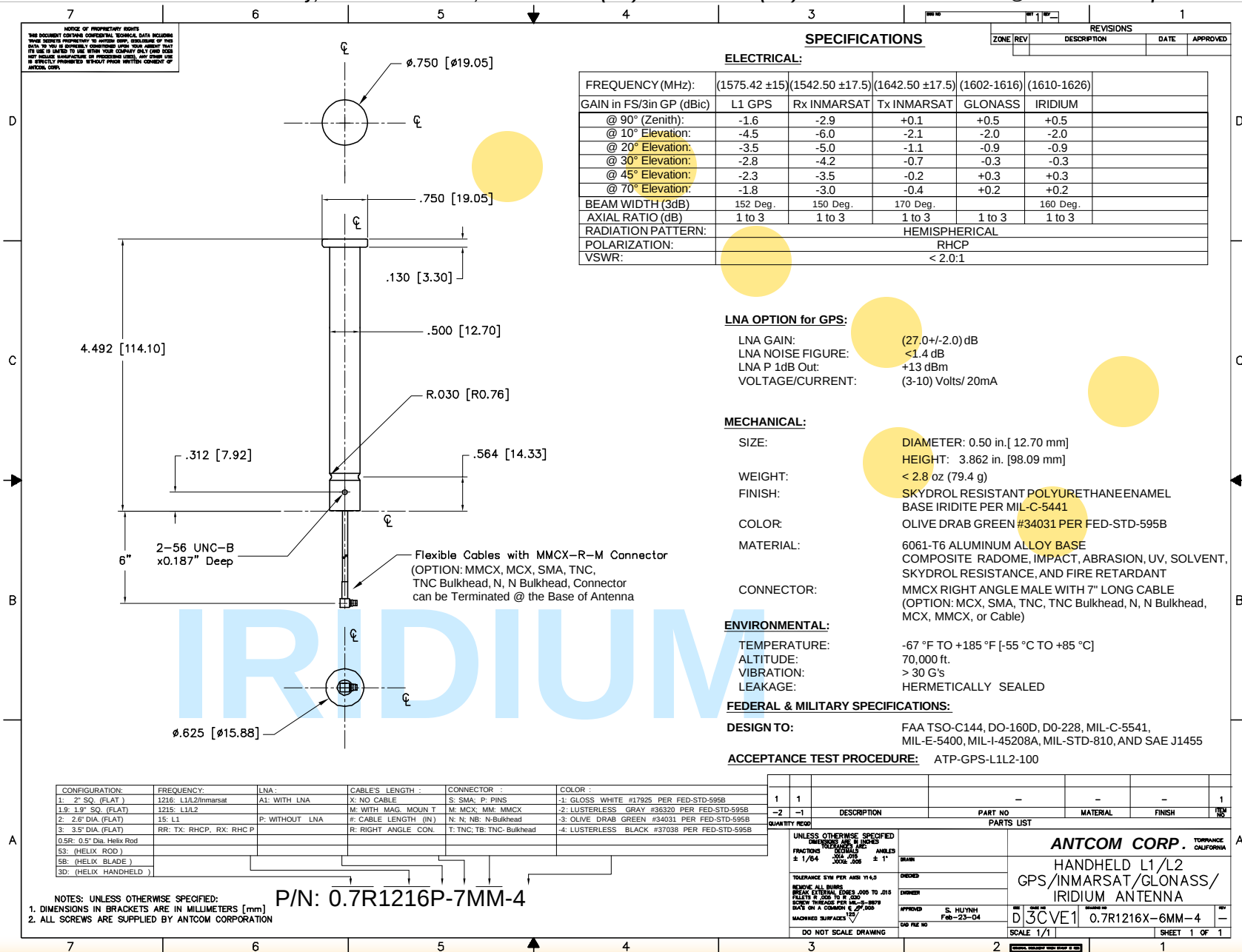


IRIDIUM Antenna, P/N: 0.7R1216X-6MM-4:

0.5" Diameter x 4.4" Tall, Threaded Bottom Mount Configuration



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Dual Channel IRIDIUM Antenna, P/N: S5GIR1616RR-AP-XTT-X :
(5.03"x2.08"x0.69"), Flat or Pipe mount Configuration



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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)





Active (L1 or L1/L2 GPS) & (IRIDIUM/Inmarsat or Thuraya) Antenna:
(5.03"x2.08"x0.69"), Flat or Pipe mount, P/N: S5GIR1X16RR-AP-XXX-X



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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.)



7 6 5

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5.026 [127.66]

4X.800 [20.32]

4X2.119 [53.82]

2.200 [55.88]

4XØ.201 [Ø5.11]

✓ Ø.385 [Ø9.78] X 100"
for 10-32 MOUNTING SCREWS

.721 [18.31]

R6.000 [R152.40]

.406 [10.31]

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 (dBi):	4 ft G.P.	Free Space	F.S.	4 ft G.P.
@ 90° (Zenith):	+4.9	+5.0	+ 4.6	+ 2.9
@ 10° Elevation:	-1.0	-2.5	- 2.5	- 1.8
@ 20° Elevation:	+1.5	-0.5	- 1.1	+ 0.7
@ 30° Elevation:	+2.4	+1.0	+ 0.5	+ 1.7
@ 60° to 90° Elevation:	>+3.3	>+2.7	> 3.6	> 2.1
BEAMWIDTH(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	
LNAGAIN:	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:	8.5 oz. (242 g)
FINISH:	SKYDROL RESISTANT POLYURETHANE ENAMEL, AND NICKEL PLATING
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

CONFIGURATION:	FREQ. BAND:	GPS/IRIDIUM LNA:	CABLE'S LENGTH:	GPS/IRIDIUM CONNECTOR:	COLOR:
1: "Z" SQ. (FLAT)	1516.11 GPS & IRIDIUM	A: WITH LNA	X: NO CABLE	S: SMA: P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.9: 1.9" SQ. (FLAT)	1216: L1/L2 GPS	P: WITHOUT LNA	M: WITH MAG. MOUNT	M: MCX: MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2" DR. (FLAT)	GPS & IRIDIUM		#: CABLE LENGTH (IN)	N: N.B. N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
3: 3.5" DIA. (FLAT)			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)					

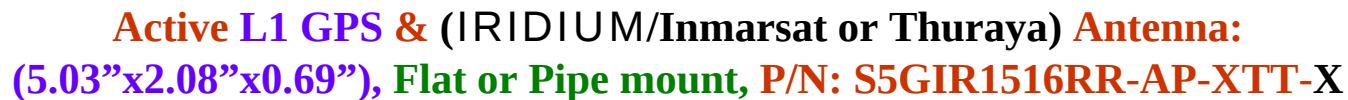
P/N: S5GIR1516RR-AP-XST-X

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

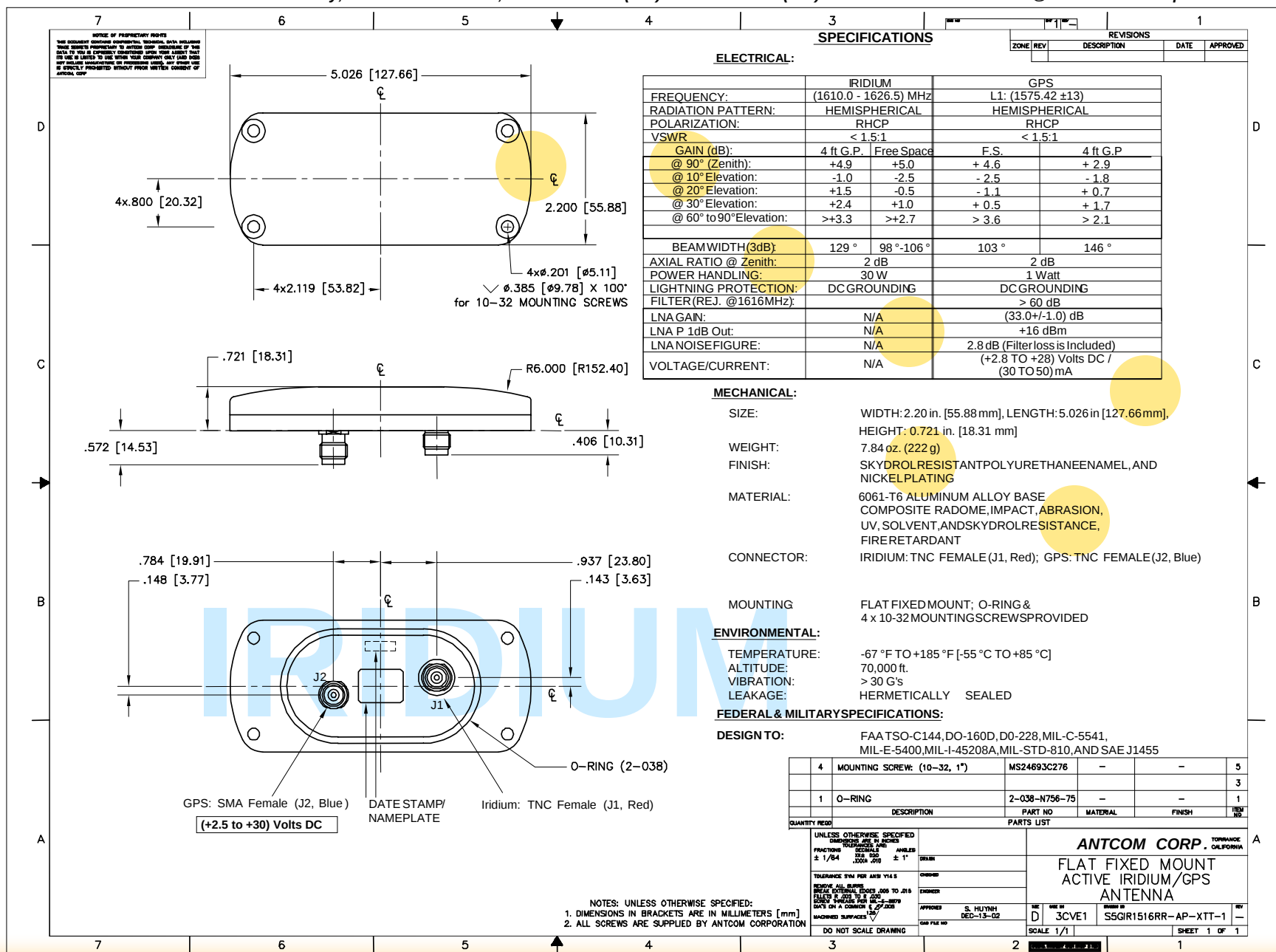
4	MOUNTING SCREW: (10-32, 1")	MS24893C276	-	-	-
1	O-RING	2-038-N756-75	-	-	-
DESCRIPTION		PART NO	MATERIAL	FINISH	
QUANTITY REQD		PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS: 1/16 1/8 3/16 1/2 5/8 3/4 7/8 1 1 1/4 1 1/2 1 3/4 2 2 1/2 3 3 1/2 4 4 1/2 5 5 1/2 6 6 1/2 7 7 1/2 8 8 1/2 9 9 1/2 10 11 11 1/2 12 DECIMALS: .0005 .001 .002 .003 .004 .005 .006 .007 .008 .009 .010 .015 .020 .025 .030 .035 .040 .045 .050 .055 .060 .065 .070 .075 .080 .085 .090 .095 .100 .105 .110 .115 .120 .125 .130 .135 .140 .145 .150 .155 .160 .165 .170 .175 .180 .185 .190 .195 .200 .205 .210 .215 .220 .225 .230 .235 .240 .245 .250 .255 .260 .265 .270 .275 .280 .285 .290 .295 .300 .305 .310 .315 .320 .325 .330 .335 .340 .345 .350 .355 .360 .365 .370 .375 .380 .385 .390 .395 .400 .405 .410 .415 .420 .425 .430 .435 .440 .445 .450 .455 .460 .465 .470 .475 .480 .485 .490 .495 .500 .505 .510 .515 .520 .525 .530 .535 .540 .545 .550 .555 .560 .565 .570 .575 .580 .585 .590 .595 .600 .605 .610 .615 .620 .625 .630 .635 .640 .645 .650 .655 .660 .665 .670 .675 .680 .685 .690 .695 .700 .705 .710 .715 .720 .725 .730 .735 .740 .745 .750 .755 .760 .765 .770 .775 .780 .785 .790 .795 .800 .805 .810 .815 .820 .825 .830 .835 .840 .845 .850 .855 .860 .865 .870 .875 .880 .885 .890 .895 .900 .905 .910 .915 .920 .925 .930 .935 .940 .945 .950 .955 .960 .965 .970 .975 .980 .985 .990 .995 1.000 1.005 1.010 1.015 1.020 1.025 1.030 1.035 1.040 1.045 1.050 1.055 1.060 1.065 1.070 1.075 1.080 1.085 1.090 1.095 1.100 1.105 1.110 1.115 1.120 1.125 1.130 1.135 1.140 1.145 1.150 1.155 1.160 1.165 1.170 1.175 1.180 1.185 1.190 1.195 1.200 1.205 1.210 1.215 1.220 1.225 1.230 1.235 1.240 1.245 1.250 1.255 1.260 1.265 1.270 1.275 1.280 1.285 1.290 1.295 1.300 1.305 1.310 1.315 1.320 1.325 1.330 1.335 1.340 1.345 1.350 1.355 1.360 1.365 1.370 1.375 1.380 1.385 1.390 1.395 1.400 1.405 1.410 1.415 1.420 1.425 1.430 1.435 1.440 1.445 1.450 1.455 1.460 1.465 1.470 1.475 1.480 1.485 1.490 1.495 1.500 1.505 1.510 1.515 1.520 1.525 1.530 1.535 1.540 1.545 1.550 1.555 1.560 1.565 1.570 1.575 1.580 1.585 1.590 1.595 1.600 1.605 1.610 1.615 1.620 1.625 1.630 1.635 1.640 1.645 1.650 1.655 1.660 1.665 1.670 1.675 1.680 1.685 1.690 1.695 1.700 1.705 1.710 1.715 1.720 1.725 1.730 1.735 1.740 1.745 1.750 1.755 1.760 1.765 1.770 1.775 1.780 1.785 1.790 1.795 1.800 1.805 1.810 1.815 1.820 1.825 1.830 1.835 1.840 1.845 1.850 1.855 1.860 1.865 1.870 1.875 1.880 1.885 1.890 1.895 1.900 1.905 1.910 1.915 1.920 1.925 1.930 1.935 1.940 1.945 1.950 1.955 1.960 1.965 1.970 1.975 1.980 1.985 1.990 1.995 2.000 2.005 2.010 2.015 2.020 2.025 2.030 2.035 2.040 2.045 2.050 2.055 2.060 2.065 2.070 2.075 2.080 2.085 2.090 2.095 2.100 2.105 2.110 2.115 2.120 2.125 2.130 2.135 2.140 2.145 2.150 2.155 2.160 2.165 2.170 2.175 2.180 2.185 2.190 2.195 2.200 2.205 2.210 2.215 2.220 2.225 2.230 2.235 2.240 2.245 2.250 2.255 2.260 2.265 2.270 2.275 2.280 2.285 2.290 2.295 2.300 2.305 2.310 2.315 2.320 2.325 2.330 2.335 2.340 2.345 2.350 2.355 2.360 2.365 2.370 2.375 2.380 2.385 2.390 2.395 2.400 2.405 2.410 2.415 2.420 2.425 2.430 2.435 2.440 2.445 2.450 2.455 2.460 2.465 2.470 2.475 2.480 2.485 2.490 2.495 2.500 2.505 2.510 2.515 2.520 2.525 2.530 2.535 2.540 2.545 2.550 2.555 2.560 2.565 2.570 2.575 2.580 2.585 2.590 2.595 2.600 2.605 2.610 2.615 2.620 2.625 2.630 2.635 2.640 2.645 2.650 2.655 2.660 2.665 2.670 2.675 2.680 2.685 2.690 2.695 2.700 2.705 2.710 2.715 2.720 2.725 2.730 2.735 2.740 2.745 2.750 2.755 2.760 2.765 2.770 2.775 2.780 2.785 2.790 2.795 2.800 2.805 2.810 2.815 2.820 2.825 2.830 2.835 2.840 2.845 2.850 2.855 2.860 2.865 2.870 2.875 2.880 2.885 2.890 2.895 2.900 2.905 2.910 2.915 2.920 2.925 2.930 2.935 2.940 2.945 2.950 2.955 2.960 2.965 2.970 2.975 2.980 2.985 2.990 2.995 3.000 3.005 3.010 3.015 3.020 3.025 3.030 3.035 3.040 3.045 3.050 3.055 3.060 3.065 3.070 3.075 3.080 3.085 3.090 3.095 3.100 3.105 3.110 3.115 3.120 3.125 3.130 3.135 3.140 3.145 3.150 3.155 3.160 3.165 3.170 3.175 3.180 3.185 3.190 3.195 3.200 3.205 3.210 3.215 3.220 3.225 3.230 3.235 3.240 3.245 3.250 3.255 3.260 3.265 3.270 3.275 3.280 3.285 3.290 3.295 3.300 3.305 3.310 3.315 3.320 3.325 3.330 3.335 3.340 3.345 3.350 3.355 3.360 3.365 3.370 3.375 3.380 3.385 3.390 3.395					

ANTCOMCORP. TORRANCE, CALIFORNIA
FLAT FIXED MOUNT
ACTIVE IRIDIUM/GPS
ANTENNA

Q	3CVE1	S5GIR1516RR-AP-XST-X
SCALE 1/1	SHEET 1 OF 1	

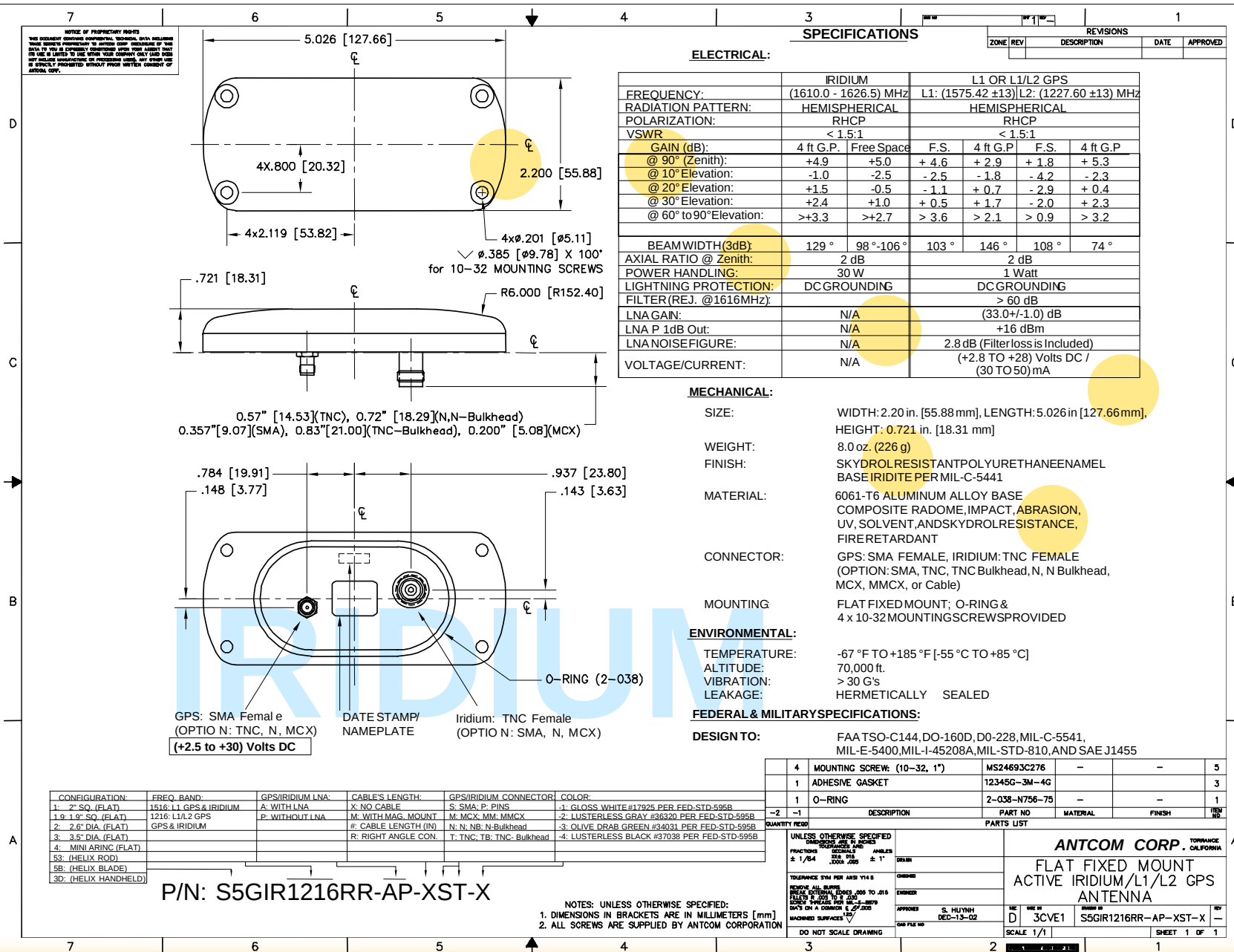


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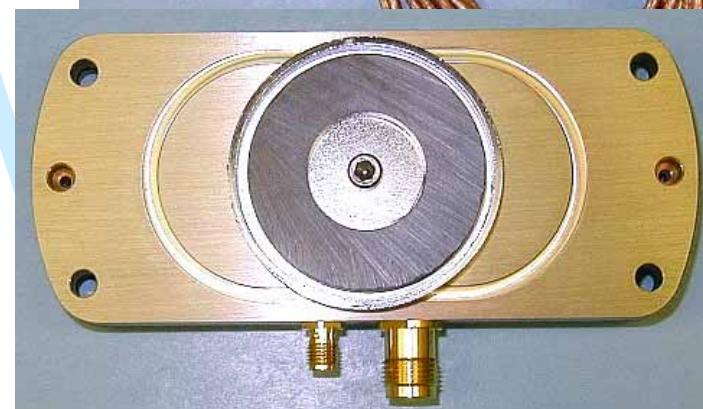
Active GPS & (IRIDIUM/Inmarsat or Thuraya) Antenna:
(5.03"x2.08"x0.69"), Removable Magnetic Mount, Side Connectors or Cables

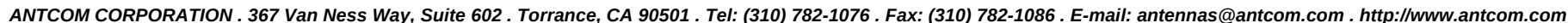


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P/N: S5GIR1516RR-AP-MST-3, Green





	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, IIRIDIUM: 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			

[illegible]

P/N: S5GIR1216RR-AP-XMST-X

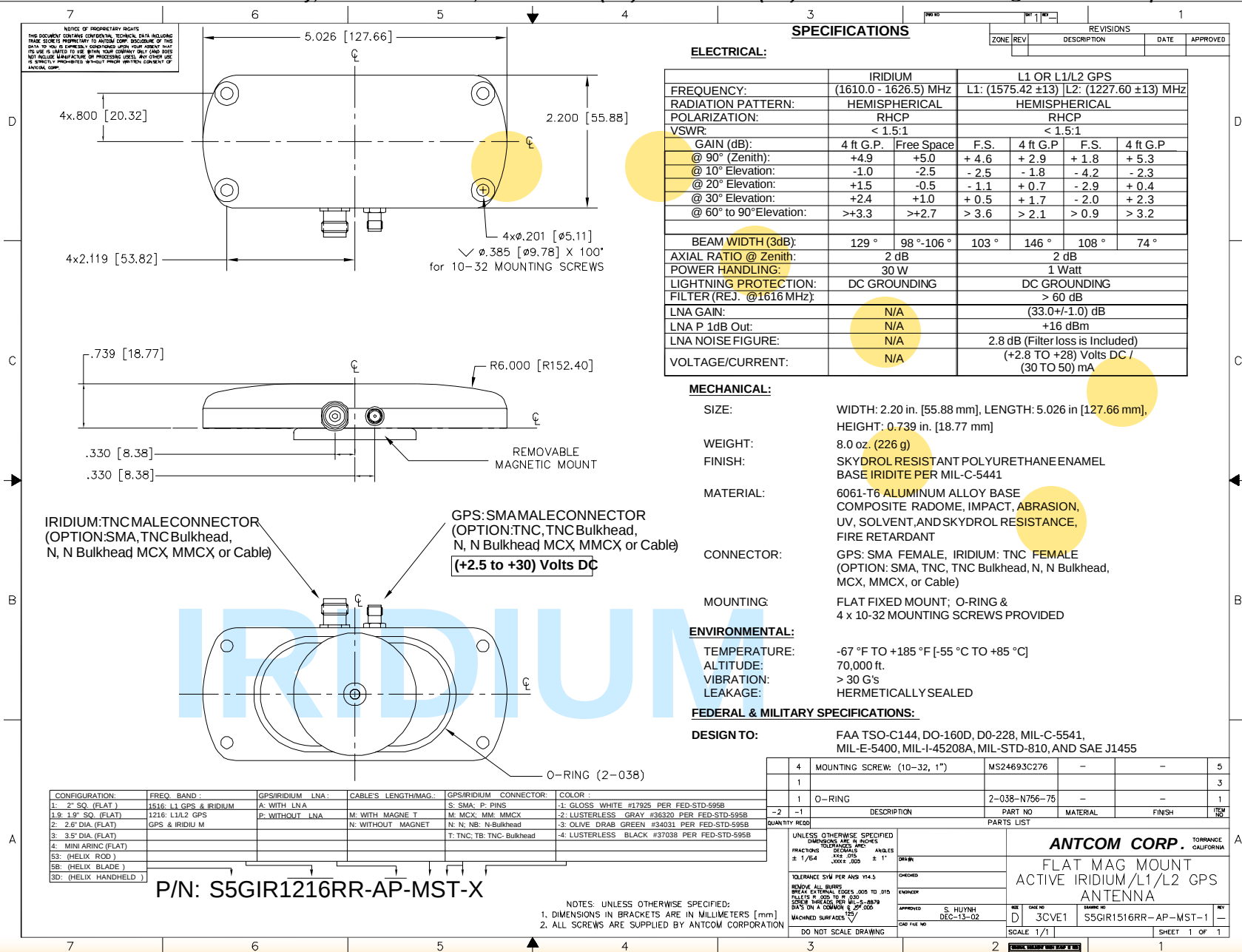
NOTES: UNLESS OTHERWISE SPECIFIED:
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
2. ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION



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



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Active GPS & (IRIDIUM/Inmarsat or Thuraya) Antenna:
(5.03"x2.08"x4.6"), Flat or Pipe mount, P/N: S5HGIR1516RR-AP-XST-X



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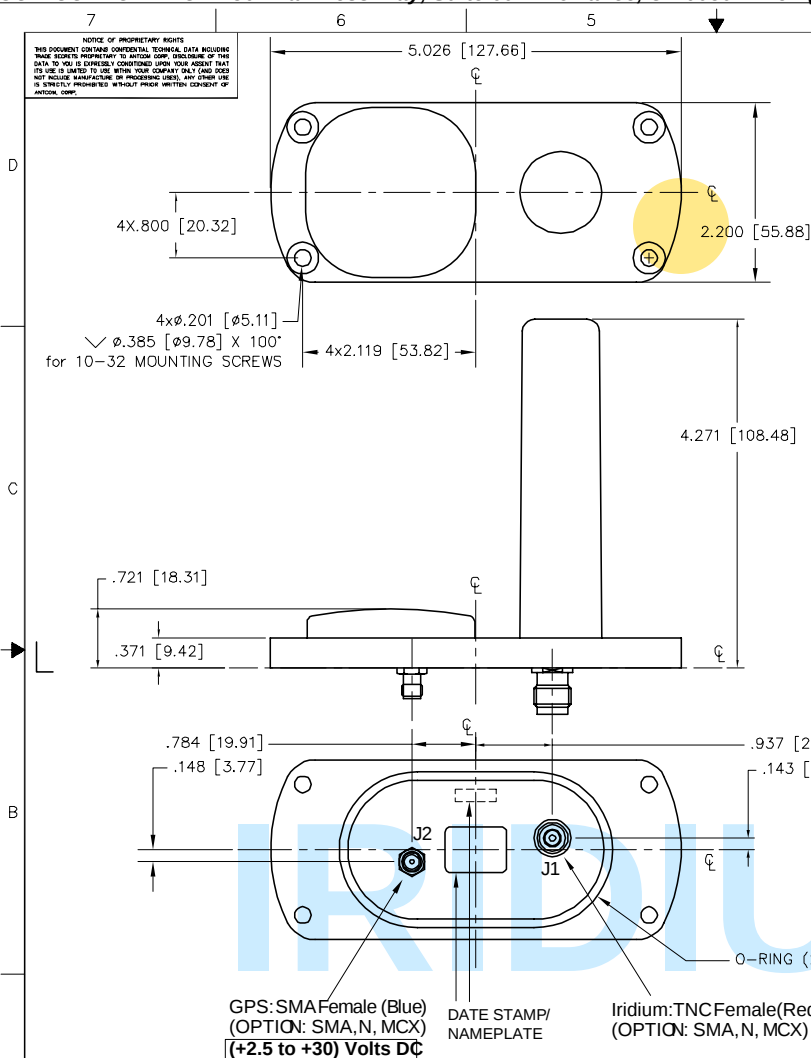




Active GPS & (IRIDIUM/Inmarsat or Thuraya) Antenna: (5.03"x2.08"x4.6"), Flat or Pipe mount, P/N: S5HGIR1516RR-AP-XST-X



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CONFIGURATION:	FREQ. BAND:	GPS/IRIDIUM LNA:	CABLE'S LENGTH:	GPS/IRIDIUM CONNECTOR:	COLOR:
1: 2" SQ. (FLAT)	1516: L1 GPS & IRIDIUM	A: WITH LNA	X: NO CABLE	S: SMA, P: PINS	1: GLOSS WHITE #17925 PER FED-STD-595B
1.9: 1.9" SQ. (FLAT)	1216: L1/L2 GPS	P: WITHOUT LNA	M: WITH MAG. MOUNT T	M: MCX, MM: MMCX	2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA. (FLAT)	GPS & IRIDIUM	#: CABLE LENGTH (IN)	N: N; NB: N-Bulkhead	N: N; NB: N-Bulkhead	3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
3: 3.5" DIA. (FLAT)		R: RIGHT ANGLE CON.	T: TNC; TB: TNC-Bulkhead	T: TNC; TB: TNC-Bulkhead	4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARINC (FLAT)					
53: (HELIX ROD)					
58: (HELIX BLADE)					
59: (HELIX HANDHELD)					

P/N: S5HGIR1516RR-AP-XST-X

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

SPECIFICATIONS

ELECTRICAL:

CONNECTOR :	J2 (BLUE)	J1 (RED)			
FREQUENCY (MHz):	(1575.42 ±13)	(1542.50 ±17.5)	(1642.50 ±17.5)	(1602-1616)	(1610-1626)
GAIN (dBic) in FS/4th GP	L1 GPS	Rx INMARSAT	Tx INMARSAT	GLONASS	IRIDIUM
@ 90° (Zenith):	+ 4.6/+4.6	+0.7/+1.5	-0.3/0.0	+0.5/+2.9	+0.1/+1.1
@ 10° Elevation:	- 2.5/-1.0	-1.6/-1.3	-1.9/-1.0	-1.3/+0.2	-1.6/-0.8
@ 20° Elevation:	- 1.1/+1.4	-0.8/+1.0	-1.1/+1.2	-0.5/+2.4	-0.8/+1.2
@ 30° Elevation:	+ 0.5/+1.5	-0.2/+1.0	-0.8/+0.4	+0.1/+2.1	-0.7/+1.1
@ 45° Elevation:	>+3.6/+2.7	+0.3/+0.6	-0.7/-0.8	-0.1/+1.0	-0.3/-0.3
@ 70° Elevation:	>+3.6/+2.7	+0.3/+0.4	-1.6/0.0	-0.3/+1.1	-0.7/0.0
BEAM WIDTH (3dB)	103/136 Deg	173/155 Deg.	180/162 Deg.	180/162 Deg.	180/162 Deg
AXIAL RATIO (dB)	2	1 to 3	1 to 3	1 to 3	1 to 3
RADIATION PATTERN :	HEMISPHERICAL				
POLARIZATION:	RHC P				
VSWR:	< 1.5:1				
DC GROUNDING:	YES (LIGHTNING PROTECTION)				
POWER HANDLING:	1 Watt	30 W			
LIGHTNING PROTECTION:	DC GROUNDIN G	DC GROUNDIN G			
FILTER (REJ. @1616 MHz):	> 60 dB				
LNA GAIN :	(33.0±1.0) dB	N/A			
LNA P 1dB Out:	+16 dBm	N/A			
LNA NOISE FIGURE :	2.8 dB	N/A			
VOLTAGE/CURRENT:	(+2.8 TO +28) Volts DC / (30 TO 50) mA	N/A			

MECHANICAL:

SIZE: WIDTH: 2.20 in. [55.88 mm], LENGTH: 5.026 in. [127.66 mm], HEIGHT: 4.271 in. [108.48 mm]
WEIGHT: 8.5 oz. (242 g)
FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL, AND NICKEL PLATING
MATERIAL: 6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, AND SKYDROL RESISTANCE, FIRE RETARDANT
CONNECTOR: GPS: SMA FEMALE (J2, BLUE), IRIDIUM: TNC FEMALE (J1, RED) (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

QUANTITY	DESCRIPTION	PART NO	MATERIAL	FINISH	REV
4	MOUNTING SCREW: (10-32, 1")	MS24693C276	-	-	5
1	O-RING	2-038-N756-75	-	-	3
PARTS LIST					
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± 1/64 ± .005 ± .010 ± 1°					
REMOVE ALL BURRS. BREAK EXTERNAL EDGES .005 TO .015. FILL IN .005 TO .015. SOFTEN THE EDGES PER MIL-STD-8839. DATE ON A COMMON DATE. MACHINED SURFACES					
DO NOT SCALE DRAWING					
ANTCOM CORP. TORRANCE, CALIFORNIA		FLAT FIXED MOUNT ACTIVE IRIDIUM HELIX/GPS ANTENNA			
DRAWN: S. HUYNH		CHECKED: S. HUYNH		DATE: DEC-13-02	
DESIGNED: S. HUYNH		APPROVED: S. HUYNH		DATE: DEC-13-02	
PART NO: D		CASE NO: 3CVE1		SHEET NO: S5HGIR1516RR-AP-XST-X	
SCALE: 1/1		SHEET: 1 OF 1		TOTAL SHEETS: 1	



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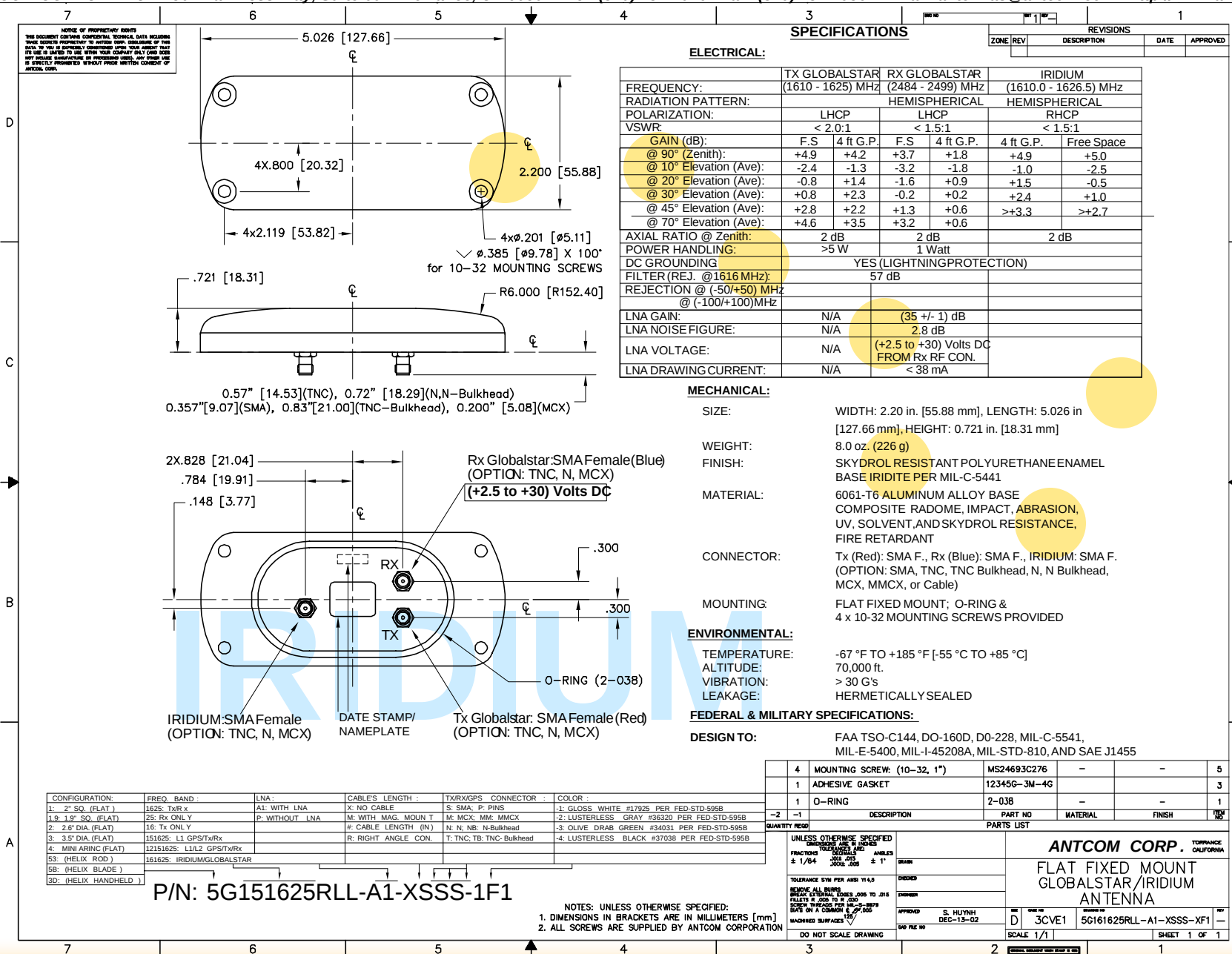
Hermetically Sealed, Designed for Hash Environment Applications.

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





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





7 6 5 4 3 2 1

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IRIDIUM

8.774 [222.85]

2.848 [72.30]

0.57" [14.53] (TNC), 0.72" [18.29] (N, N-Bulkhead)
0.44" [11.18] (SMA), 0.83" [21.00] (TNC-Bulkhead)

#12.120 (#307.80)

NAMEPLATE APPROXIMATE LOCATION

1.344 [34.12]

2x.672 [17.06]

RS.016 (#127.36)

4x TNC FEMALE CONNECTORS
EQUALLY SPACED ON 5.015" RADIUS
(SMA OR N TYPE IS OPTIONAL)

3x 8-32 TAPPED HOLES
X 0.250 DEEP

2x1.164 [29.56]

P/N: 124IR16RR-P-XT-1

16: IRIDIUM
A: WITH LNA
AL: WITH LNA/LIMITER
1215: L1/L2
15: L1 ONLY

CABLE LENGTH :
X: NO CABLE
M: MAG, N: NO MAG
: CABLE LENGTH (IN)
R: RIGHT ANGLE CON.

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

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QUANTITY REQD

DESCRIPTION

PARTS LIST

PART NO

12G1215-R-8

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

TOLERANCE 5TH PER ASS Y14.3

REMOVE ALL BURRS
PER INTERNAL DIMS 1000 TO 2015
FLETS 5 200 TO 5 200
BITE ON A COMMON 5 200

MAKING SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

4 CHANNEL
IRIDIUM/GPS/INMARSAT
ANTENNA

124IR16RR-P-XT-1

SHEET 1 OF 1

REVISIONS

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APPROVED

DESCRIPTION

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2-Way Power Divider/Combiner for Multiple Channels, (P/N: 2G1215S-XS2-1)



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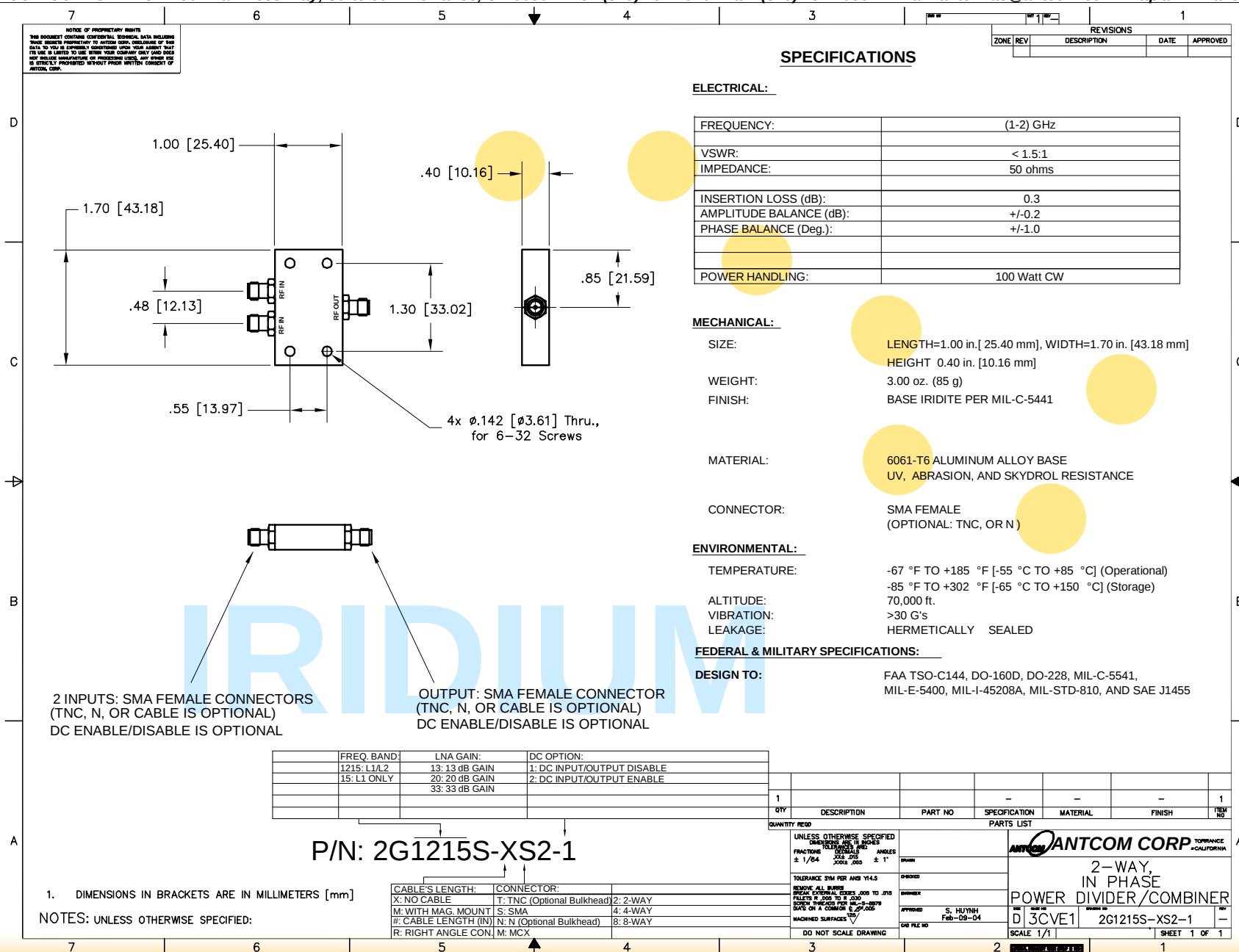
- 4 & 8-Way Power Divider/Combiner is Available
- Other Connector Types are Available



2-Way Power Divider/Combiner for Multiple Channels, P/N: 2G1215S-XS2-1



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1"-14 Threaded Pipe Mount, P/N: MTR-1-14
for 3G, 53G, 73G, S3IR, S53 Antenna Series



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P/N: MTR-1-14,
3.25" Dia. x 0.5" Thick,
for 1"-14 Threaded Pipe

[illegible]



Pipe Mount, P/N: MTR-1-1 and MTR-1-1.25 for 3G, 53G, 73G, S3IR, S53 Antenna Series



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P/N: MTR-1-1.25,
3.25" Dia. x 1.175" High,
for 1.2" and 1" Dia. Pipe



P/N: MTR-1-1,
3.25" Dia. x 1.175" High
for 1" Dia. Pipe





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REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
D	1	MOUNTING HOLE / BODER PIPE	Feb-23-04	S.H

QUANTITY REQD:

QTY	DESCRIPTION	PART NO	MATERIAL	FINISH	REQ
1	- 4MM SA Hex Wrench	570005240	-	-	5
1	- M8 SET SCREW	92015A139	-	-	4
4	- MOUNTING SCREWS, 10-32, 3/4"	MS24693C274	-	-	3
1	- ANTENNA MOUNT	NTR-1 & -1.25	6061-T6 AL ALLOY	Black Anodize MIL-C-5541 CLASS 3	1

PARTS LIST

QTY	DESCRIPTION	PART NO	MATERIAL	FINISH	REQ
1	- ANTENNA MOUNT	NTR-1 & -1.25	6061-T6 AL ALLOY	Black Anodize MIL-C-5541 CLASS 3	1

UNLESS OTHERWISE SPECIFIED

TOLERANCES ARE IN INCHES

FRACTIONS DECIMALS ANGLES

$\pm 1/64$.0005 .005 $\pm 1^\circ$

TOLERANCE 5M PER ANSI Y14.5

REMOVE ALL BURRS

BEFORE FINAL DIMENSIONS TO .015

FAULTS IN .005 TO .015

SOCKET THREADED PER UNF-3B7Y

DATA ON A COUGH E OF .005

MACHINED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP.

1" & 1.25" DIA. PIPE MOUNT

APPROVED S. HUYNH Feb-23-04

DWG FILE NO

SCALE 1/1

SHEET 1 OF 1

IRIDIUM

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

The drawing shows three views of an antenna mount. The top view is a circular flange with a central hole and four mounting holes. Dimensions include a total diameter of 2x.950 [24.13], a central hole diameter of ø3.250 [ø82.55], and mounting hole diameters of ø1.676 [ø42.57]. The side view shows a cylindrical body with a base plate. Dimensions include a height of 1.344 [34.12], a base thickness of 1.175 [29.85], and a base diameter of 1x1.164 [29.55]. The bottom view shows a circular base with a central hole and four mounting holes. Dimensions include a total diameter of 2x.950 [24.13], a central hole diameter of ø3.250 [ø82.55], and mounting hole diameters of ø1.676 [ø42.57].



**Pipe Mount, P/N: MTR-2 (for Both Vertical/Horizontal Pipe)
for 3G, 4G, 5G, 53G, 73G, S3IR , S4IR, S53, S5G Antenna Series**



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3.5" Dia. x 3.695" High



4 3 2 1

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Ø1.700 Thru.
7x10-32
PEM Nut Insert

Ø3.500

1.330

1.344

1.300

1.344

1.300

1.164

.800

.800

2x.672

1.750

2x.834

R1.344

2x.650

2x.703

2x1.580

2x3.210

3.695

2x.630 thru.

4xØ.469 Thru.

2xR.485

2x.815

2x.815

2x.815

1.300

1.300

2x.815

2x.815

2x.815

1.365

R.625

2x.625

2x.815

2xR.060

P/N: MTR-2-1a

P/N: MTR-2-1b

2.25

1.25

.38

3/8"-16

1.25

1.63

1.270

McMaster P/N: 3043T36

304 Stainless Steel

1

1

DESCRIPTION

PART NO

MATERIAL

FINISH

ITEM NO

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
± 1/64 .005 .015 ± 1°
TOLERANCE SYM PER ANSI Y14.5
REMOVE ALL BURRS
BREAK EXTERNAL EDGES .005 TO .015
FILLET R .005 TO R .030
SCREW THREADS PER MIL-S-8879
DATA ON A COMMON 6-27-005
MACHINED SURFACES 125

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

Vertical/Horizontal
Antenna Mount

3C3VE1

MTR-2

SCALE 1/1 WT MAX

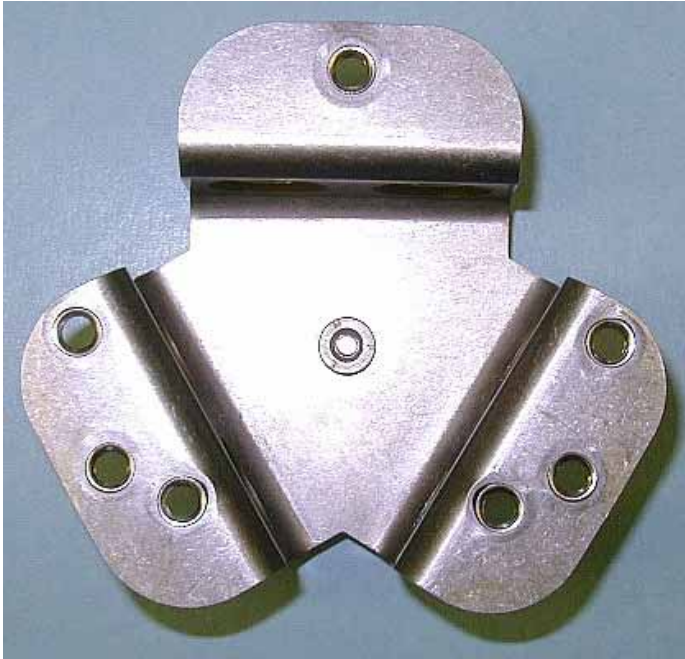
SHEET 1 OF 1



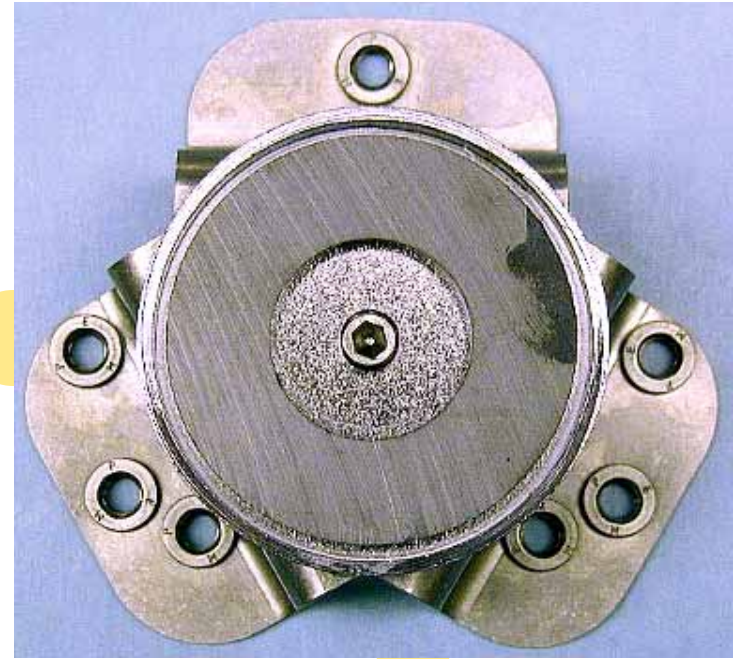
Optional Magnetic Mount Extension, P/N: MTR-5 for 3G, 4G, 5G, 53G, 73G, S3IR, S4IR, S53, S5G Antenna Series



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P/N: MTR-5,
3.3" x 1" High,
for Optional Magnetic
Mount Extension



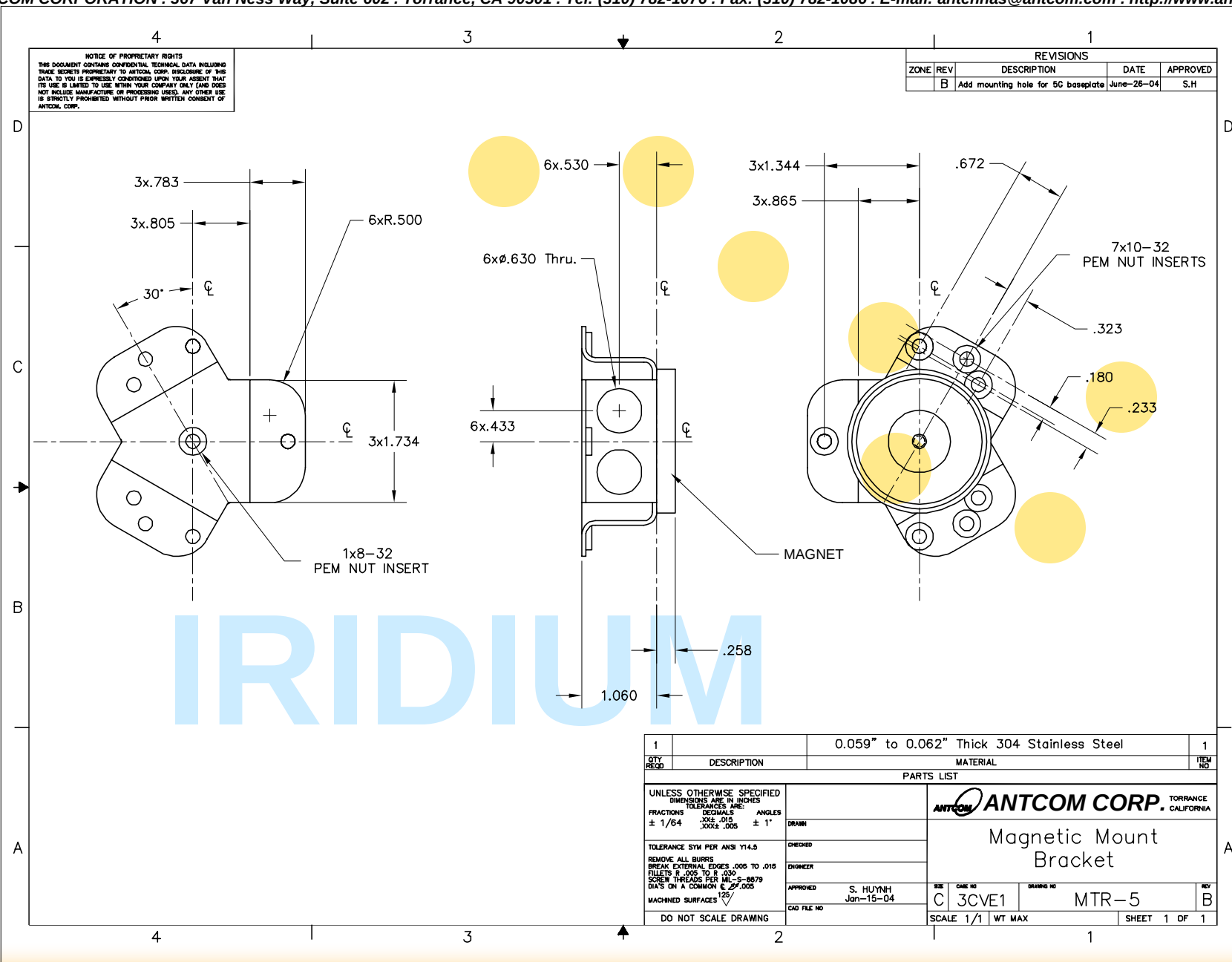


Magnetic Mount, P/N: MTR-5

for 3G, 4G, 5G, 53G, 73G, S3IR, S4IR, S53, S5G Antenna Series



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Survey Mount, P/N: MTR-3 for 3GO, 5GO, 53GO, 73GO Antenna Series



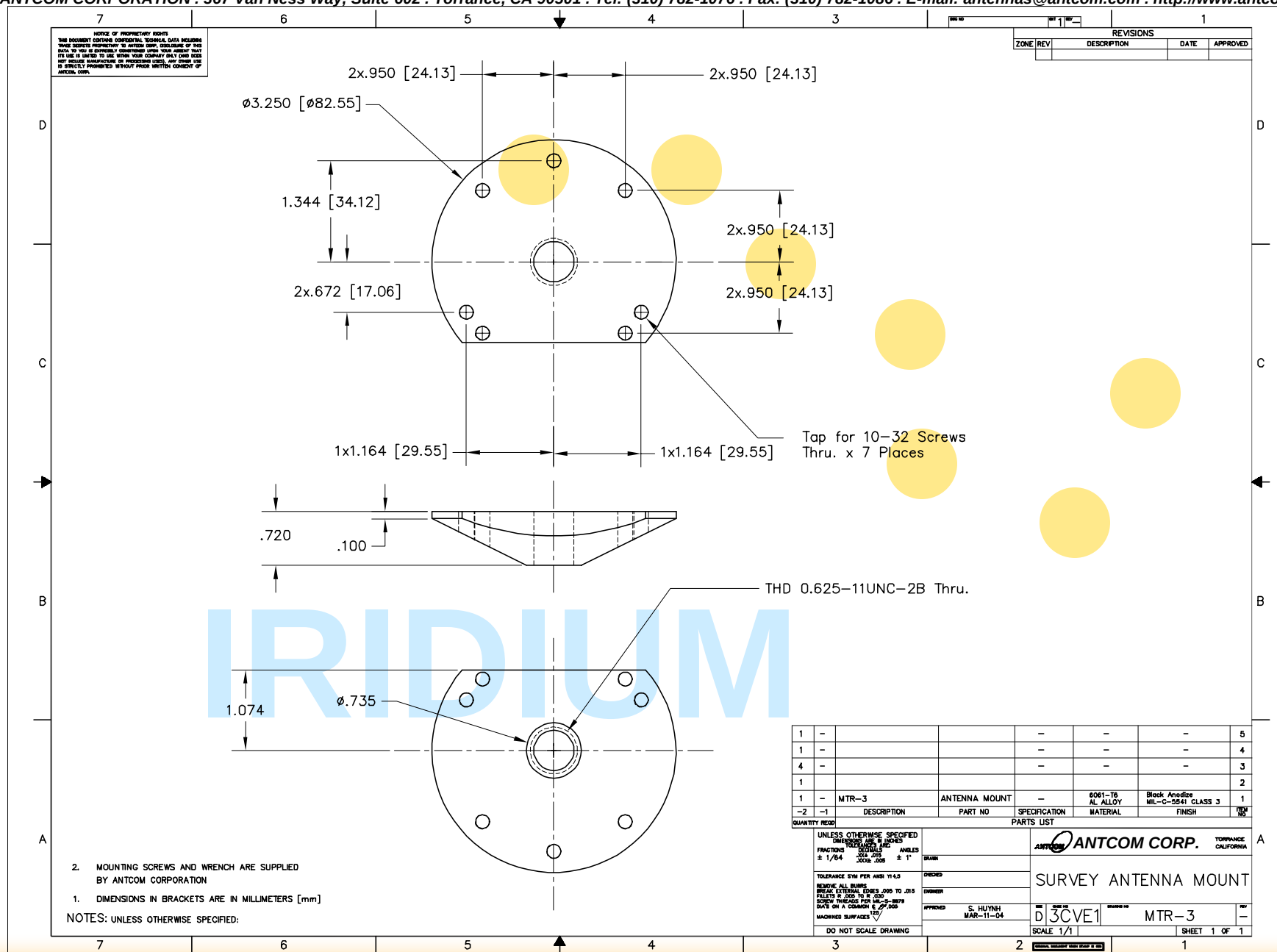
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**3.25" Dia. x 0.72" High,
5/8-11 Thread**



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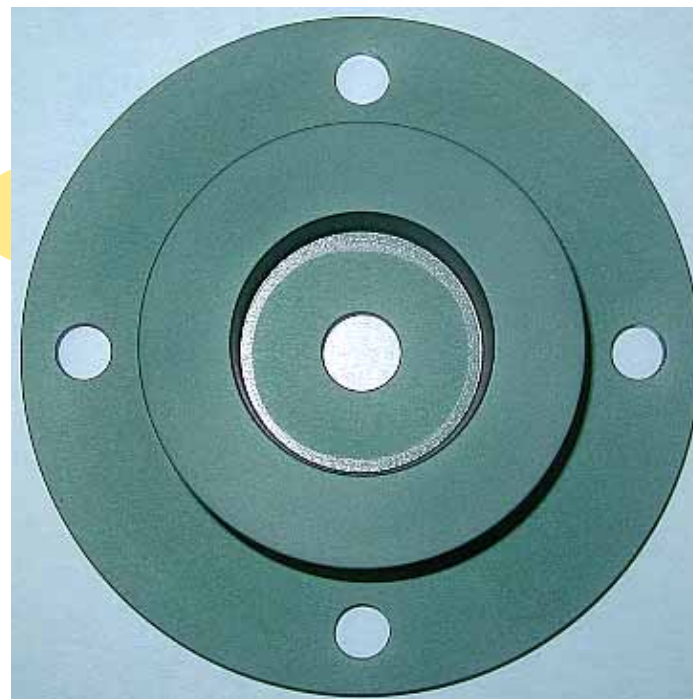




Motorola Antenna Mount, P/N: MTR-4 for 3G, 53G, 73G, S3IR, S53 Center Connector Antenna Series



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5.512" Dia. x 1.18" High

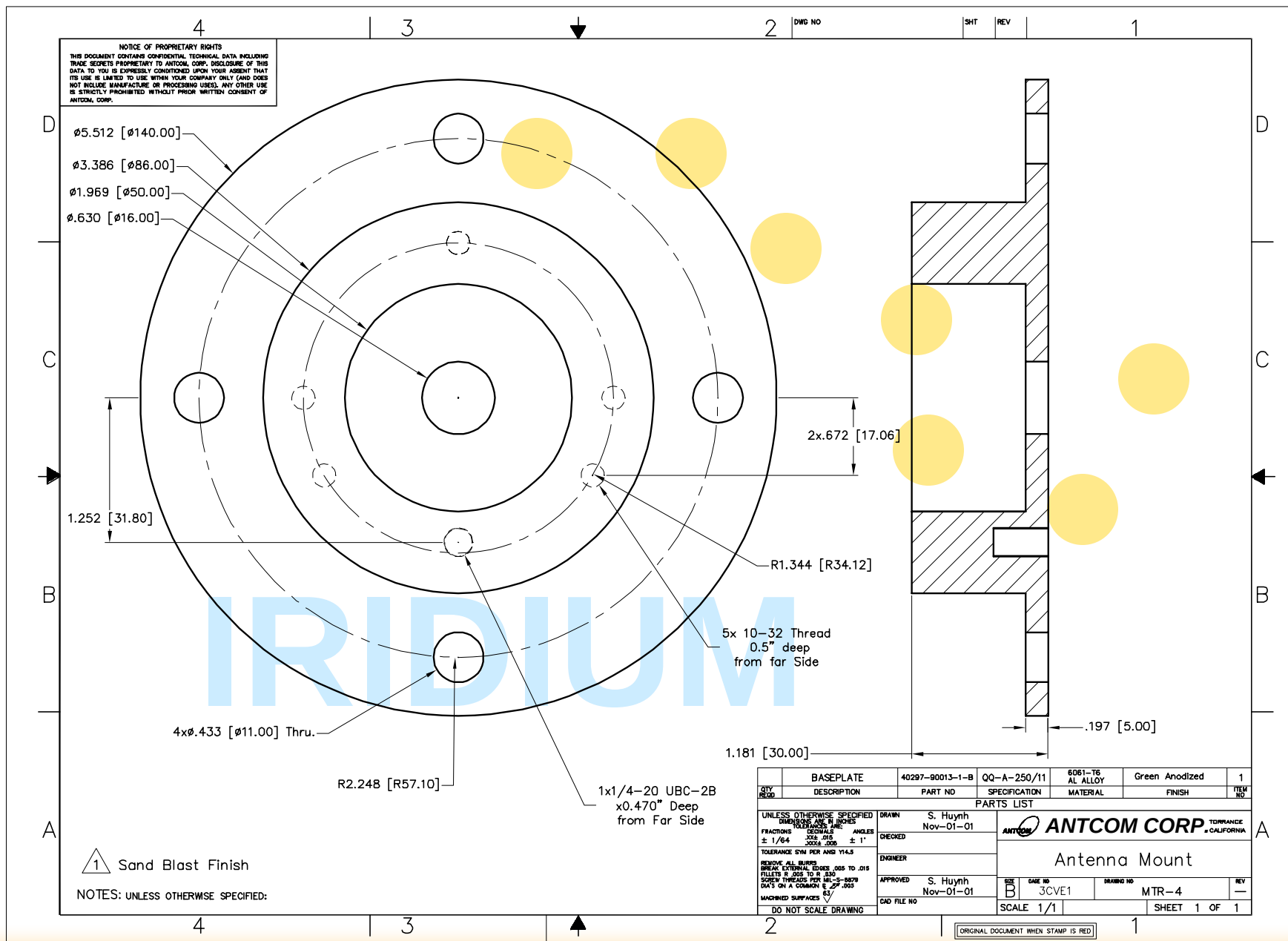




Motorola Antenna Mount, P/N: MTR-4 for 3G, 53G, 73G, S3IR, S53 Center Connector Antenna Series



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Mounting Gasket (Optional), P/N: 3G15P1001-3G
for 3G, 31G, 5G, 53G, 73G, S3IR , S53 Antenna Series



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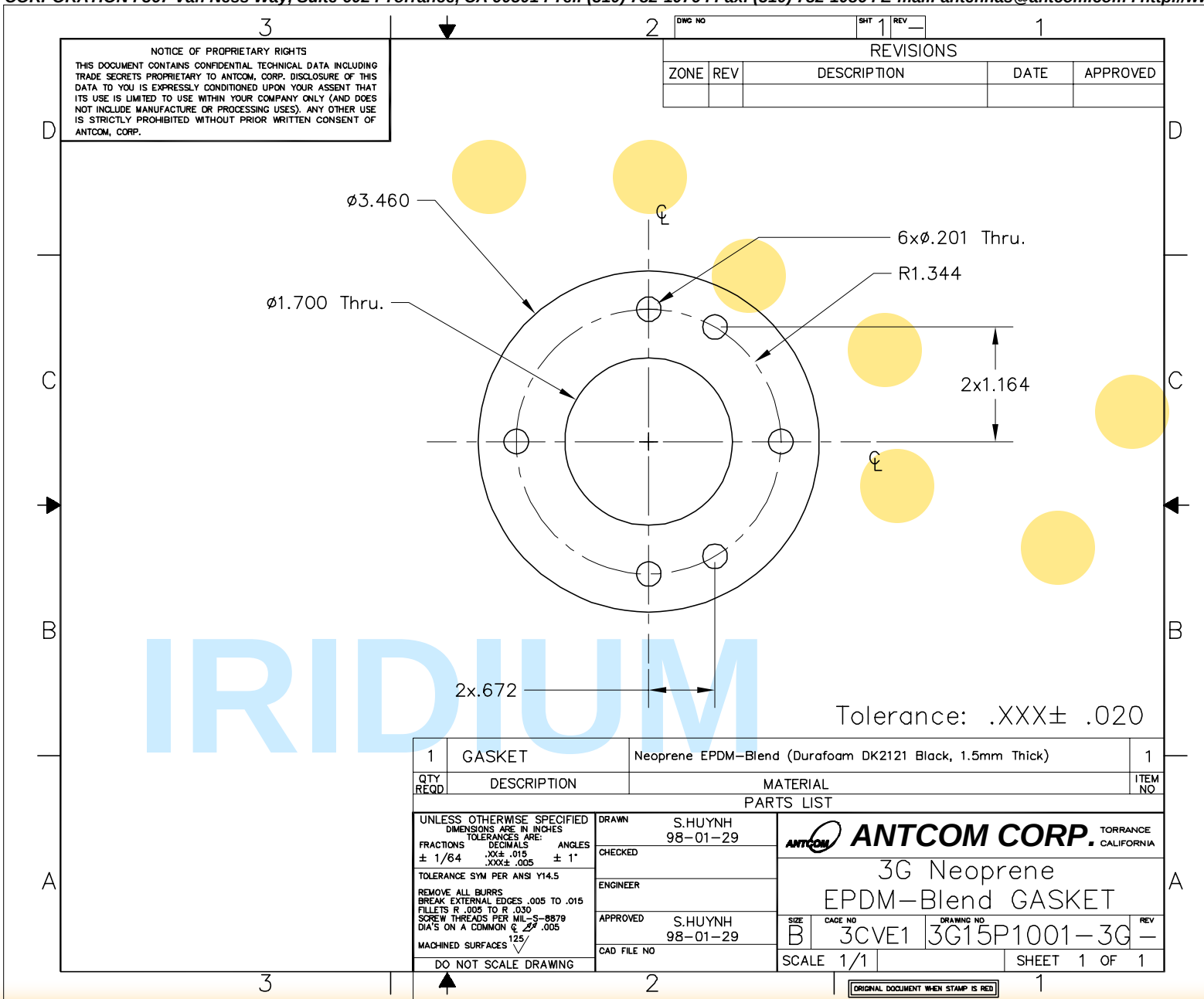
P/N: 3G15P1001-3G,
3.4"Dia. x 0.060" Thick

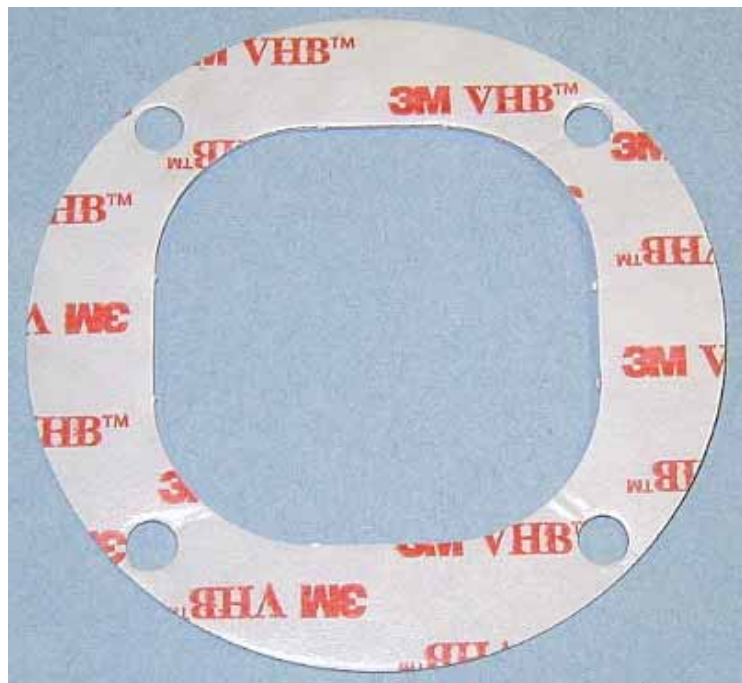


Mounting Gasket (Optional), P/N: 3G15P1001-3G for 3G, 31G, 5G, 53G, 73G, S3IR, S53 Antenna Series



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Adhesive Mounting Gasket
(Optional):
3.0" Dia. x 0.025" Thick
for 3G, and S3 Antenna Series,
P/N: 12345G-3M-3G



Adhesive Mounting Gasket
(Optional):
1.9" Sq. x 0.025" Thick
for 1G, 1.9G, and S1 Antenna Series,
P/N: 12345G-3M-1G



Adhesive Mounting Gasket
(Optional):
1.46" Sq. x 0.025" Thick
for 1.5G, and S1.5 Antenna Series,
P/N: 12345G-3M-1.5G

Adhesive Mounting Gasket
(Optional):
2.4" Dia. x 0.025" Thick
for 2G, and S2 Antenna Series,
P/N: 12345G-3M-2G





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REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
		RELEASED TO PROD. PER DGN #1	00-12-19	

P/N: 12345G-3M-3G
for 3G, and S3 Antenna Series,

Ø3.000

2x1.918

4xØ.221

4xR.700

4xR.343

12345G-3M-3G

Ø3.000

2x1.900

Ø1.000

12345G-3M-1G

2x1.465

P/N: 12345G-3M-1G
for 1G, 1.9G, S1,
and S1.9 Antenna Series,

MATERIAL: 3M: 4936 or Similar, Thickness=0.025"

Adhesive Gasket

ANTICOM CORP. TORRANCE CALIFORNIA

3G & 1G Adhesive Gasket

DRAWN: S. Huynh
CHECKED: S. Huynh
DESIGNED: S. Huynh
APPROVED: S. Huynh
DATE: 00-12-19

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
FRACTIONS SHALL BE DECIMALS
± 1/64
TOLERANCE SIM PER ANSI Y14.5
SURFACE FINISH: RA 1.6
DO NOT SCALE DRAWING

SCALE: 1/1

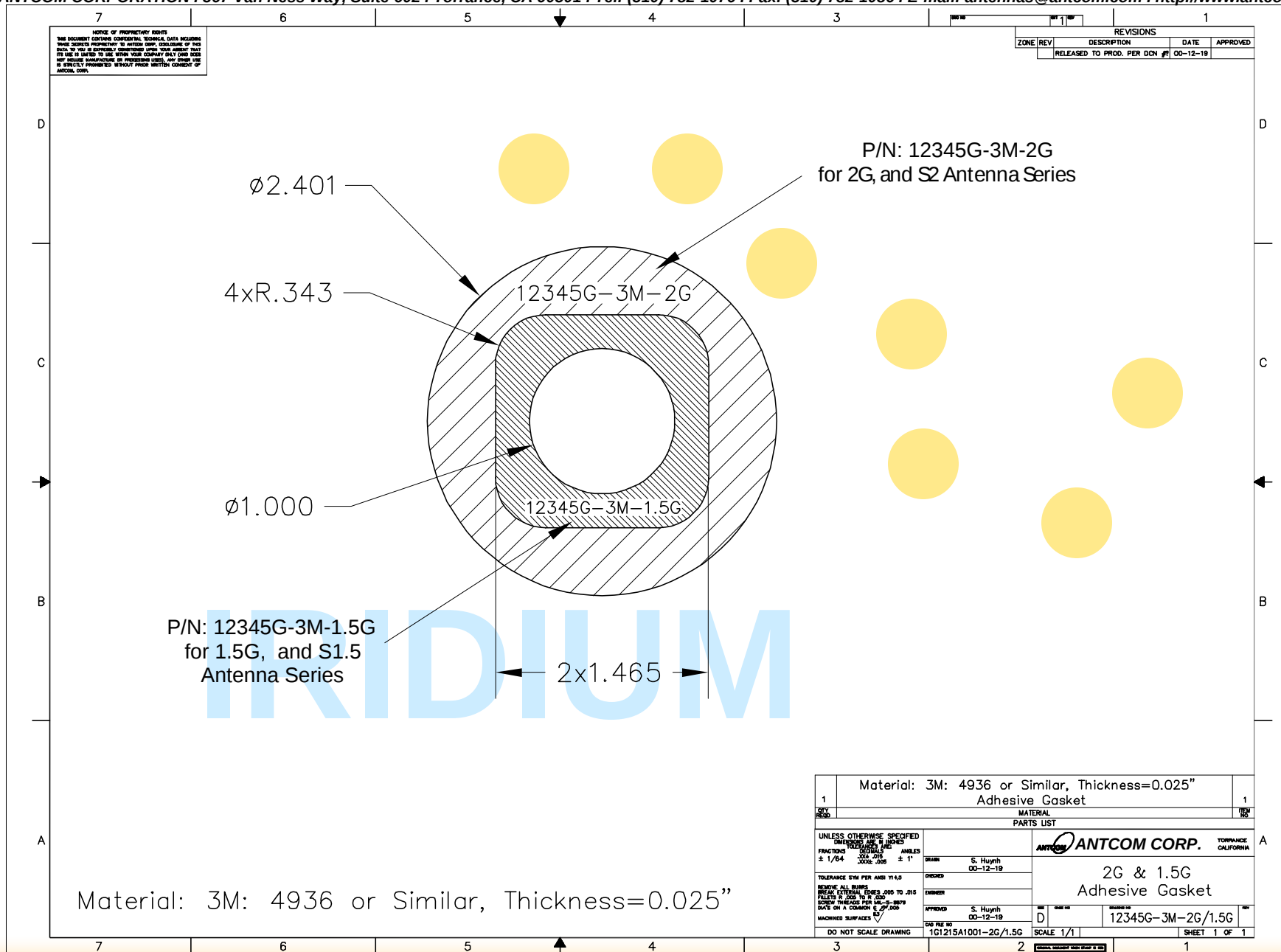
SHEET 1 OF 1



Adhesive Mounting Gasket (Optional) for 2G, S2, 1.5G, and S1.5 Antenna Series



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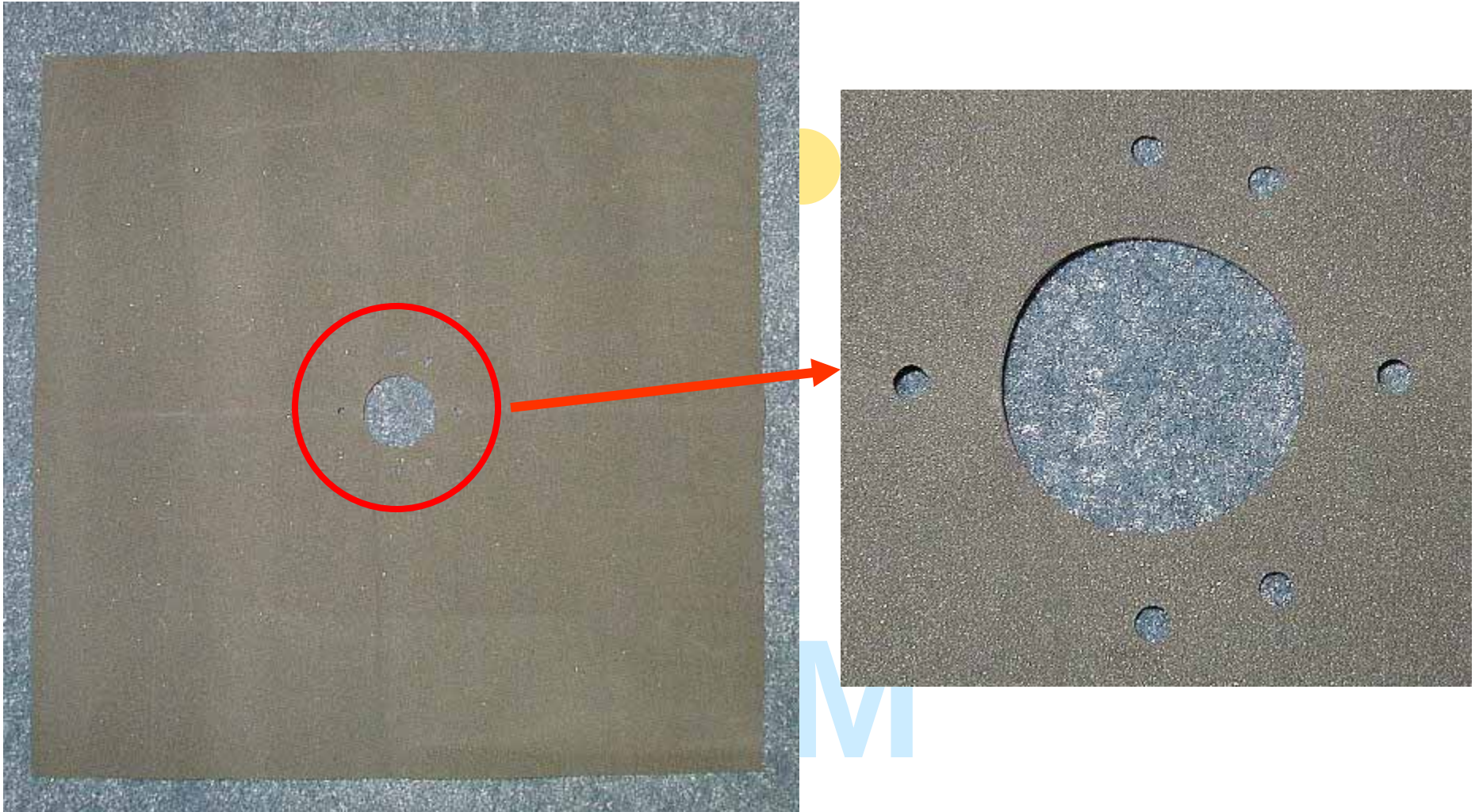




Environmental Protection for Installation Using **MTR-1/-2 (Optional)**,
P/N: 3G15P1001-17 for 73G, 3G, 31G, 5G, 53G, S3IR, S53 Antenna Series



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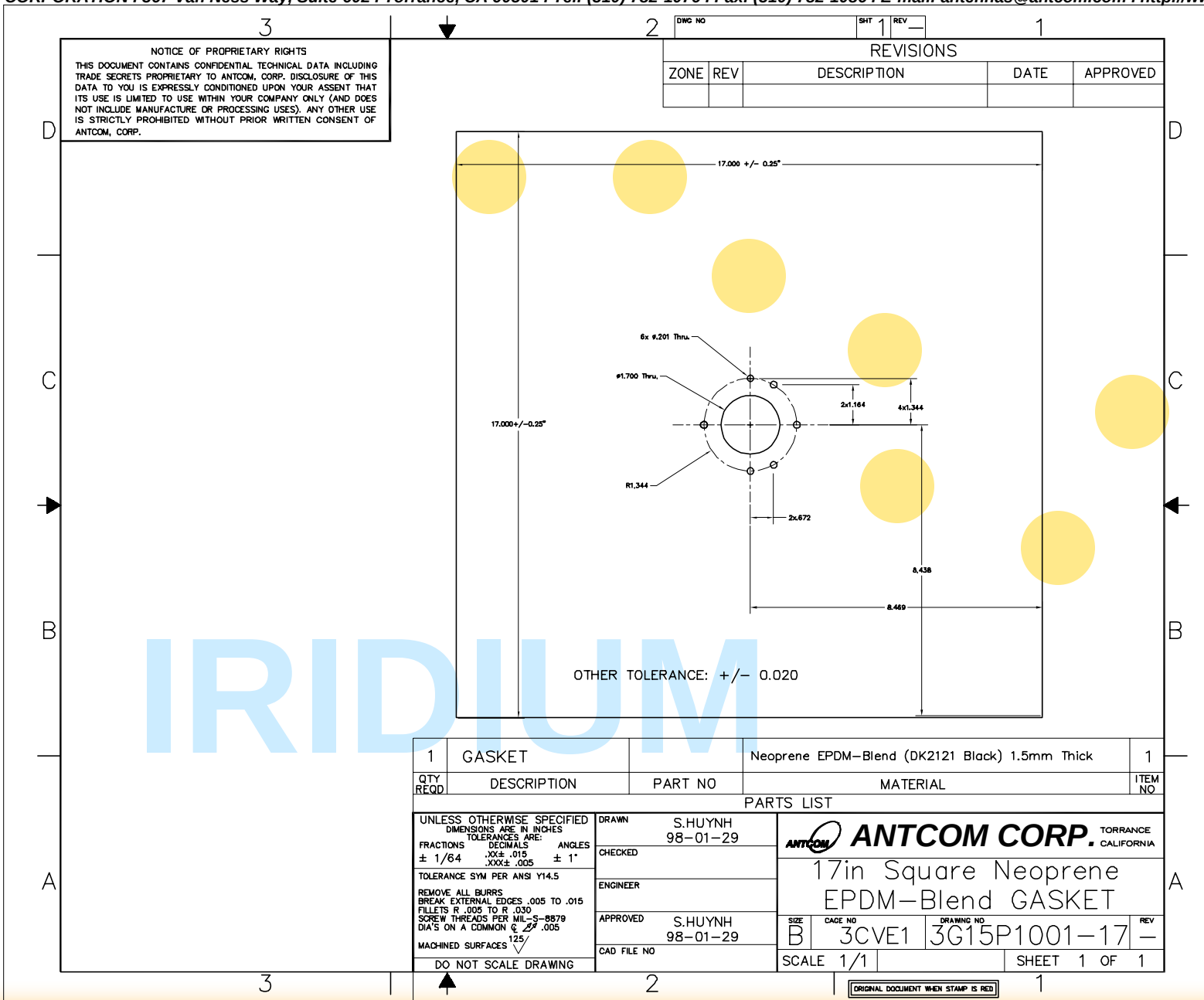
P/N: 3G15P1001-17,
17" Sq. x 0.060" Thick



Environmental Protection for Installation Using MTR-1/-2 (Optional), P/N: 3G15P1001-17 for 73G, 3G, 31G, 5G, 53G, S3IR, S53 Antenna Series



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Teflon Coating Option (-U), Extra Protection for Under Water Applications.

Available for all Models



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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)