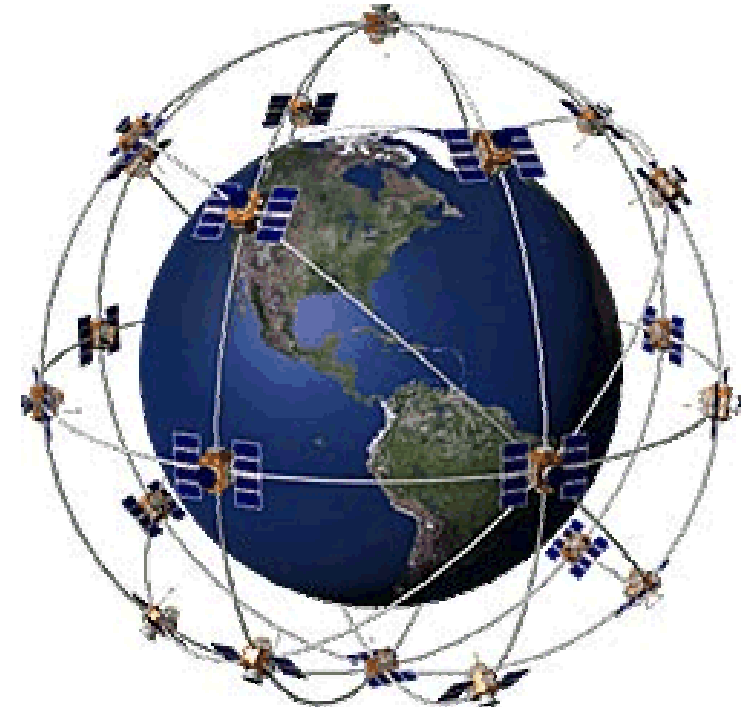




Active or Passive L1 *GPS* Antennas: Pictures, Outline Drawings, and Specifications



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- 24 satellites (six orbital planes inclined at 55°)
- Altitude: 20,200km altitude
- Radius: 26,560 km
- Orbital period: 11h 58m (4km/s)
- 6 to 10 satellites always in view



Active or Passive L1 GPS Antennas, P/N: 3G15X-XX-X:
3.5" Diameter Configurations with Additional Back Mounting Option



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P/N: 3G15X-XX-1 (White) P/N: 3G15X-XX-2 (Gray) P/N: 3G15X-XX-3 (Green) P/N: 3G15X-XX-4 (Black)



P/N: 3G15X-XS-X (SMA)

P/N: 3G15X-XT-X (TNC)

P/N: 3G15X-XN-X (N)

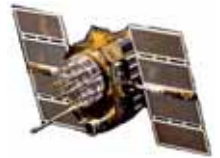
Hermetically Sealed, Designed for Harsh Environment Applications.

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

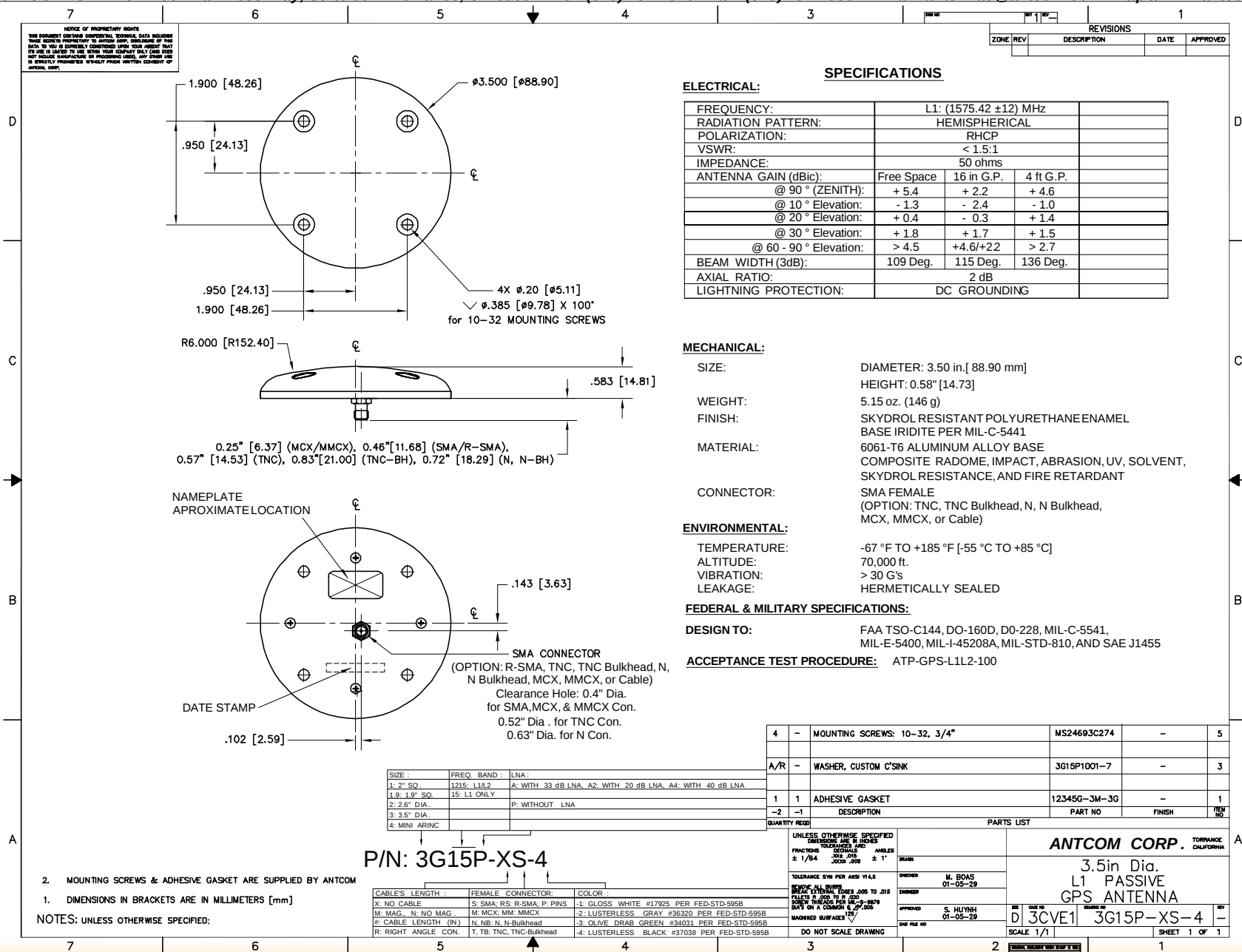


Passive L1 GPS Antenna, P/N: 3G15P-XX-X:

3.5" Diameter Configuration with Additional Back Mounting Option



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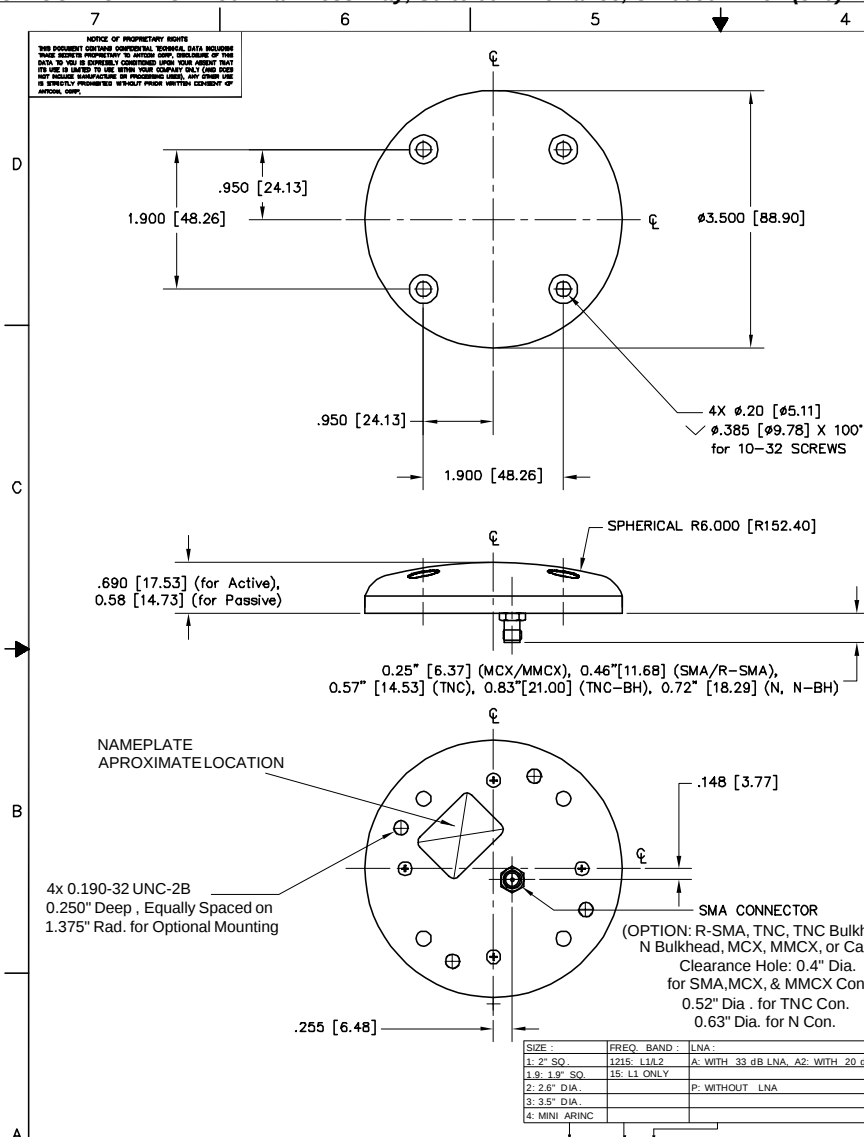




Active or Passive L1 GPS Antenna, P/N: 3G15X-XX-X: 3.5" Diameter Configuration with Additional Back Mounting Option



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ELECTRICAL:

FREQUENCY:	L1: (1575.42 $\pm$ 12) MHz
RADIATION PATTERN:	HEMISPHERICAL
POLARIZATION:	RHCP
VSWR:	< 1.5:1
IMPEDANCE:	50 ohms
ANTENNA GAIN (dBic):	Free Space 16 in G.P. 4 ft G.P.
@ 90° (ZENITH):	+ 5.4 + 2.2 + 4.6
@ 10° Elevation:	- 1.3 - 2.4 - 1.0
@ 20° Elevation:	+ 0.4 - 0.3 + 1.4
@ 30° Elevation:	+ 1.8 + 1.7 + 1.5
@ 60 - 90° Elevation:	> 4.5 +4.6/+22 > 2.7
BEAM WIDTH (3dB):	109 Deg. 115 Deg. 136 Deg.
AXIAL RATIO:	2 dB
LIGHTNING PROTECTION:	DC GROUNDING

LNA OPTION:

LNA GAIN:	33 dB
LNA NOISE FIGURE:	2.2 dB
LNA P1dB Out:	+13 dBm
LNA DC POWER:	2.5V/20mA, 3V/20mA, 3.3V/20mA, (2.5-24)V/<30mA
REJECTION @ (-50/+50) MHz	-45 dB / -70 dB
@ (-100/+100) MHz	< -65 dB
POWER HANDLING:	1 Watt CW, Optional: 10 Watts 1 Microsec Pulse (-AL-)

MECHANICAL:

SIZE:	DIAMETER: 3.50 in. [88.90 mm]
WEIGHT:	HEIGHT: 0.690 in. [17.53 mm] (for Active), 0.58" [14.73] (for Passive)
FINISH:	5.15 oz. (146 g)
MATERIAL:	SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5441
CONNECTOR:	6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT 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, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455
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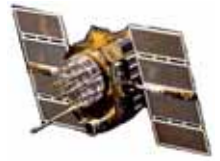
ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

QTY	DESCRIPTION	PART NO.	FINISH	QTY
4	MOUNTING SCREWS: 10-32, 3/4"	MS24693C274	-	5
A/R	WASHER, CUSTOM C'SINK	3G15P1001-7	-	3
1	ADHESIVE GASKET	123450-3M-3G	-	1
-2	DESCRIPTION			

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 .005 .010 ± 1°	ANTCOM CORP. TORRANCE, CALIFORNIA
TOLERANCE SURF PER AMS Y4.5 SURF FINISH: 125, 15, 8, 320 SURF FINISH: 125, 15, 8, 320 SURF FINISH: 125, 15, 8, 320	3.5" Dia. L1 ACTIVE, OR PASSIVE GPS ANTENNA
DO NOT SCALE DRAWING	3G15X-XX-X



Active or Passive L1 GPS Antennas, P/N: 3G15X-XXX-X : 3.5" Diameter, Conformal and Pipe Mount Configurations



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P/N: 3G15A-MTR-1



P/N: 3G15A-XTR-1



P/N: 3G15P-ARS-P-012



P/N: 3G15P-AS-P-012



Hermetically Sealed, Designed for Harsh Environment Applications.

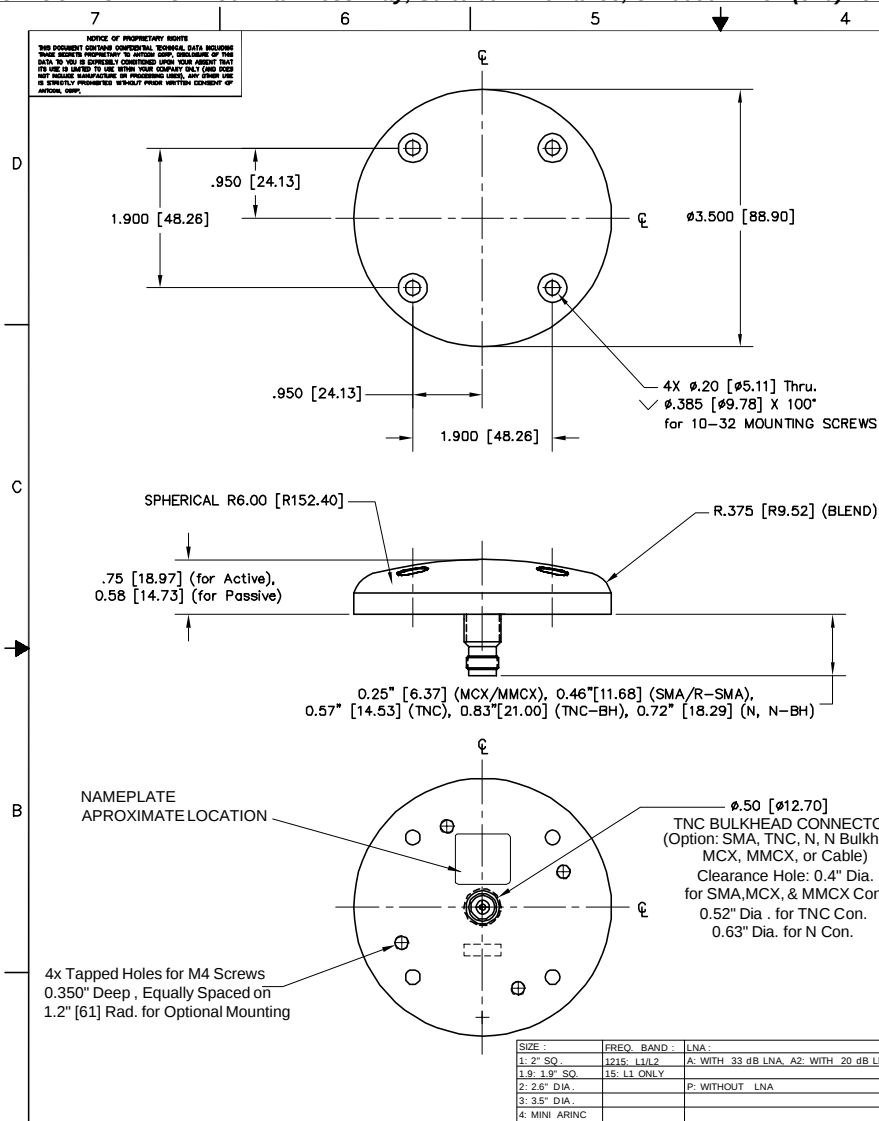
Connector is Available in SMA, MCX, MMCX, TNC, TNC-B, N, or N-Bulkhead (See Drawing)



Active L1 GPS Antenna, P/N: 3G15A-XXR-X: 3.5" Diameter, Pipe Mount Configuration



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SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	L1: (1575.42 ±12) MHz
RADIATION PATTERN:	HEMISPHERICAL
POLARIZATION:	RHCP
VSWR:	< 1.5:1
IMPEDANCE:	50 ohms
ANTENNA GAIN (dBic):	Free Space 16 in G.P. 4 ft G.P.
@ 90 ° (ZENITH):	+ 5.4 + 2.2 + 4.6
@ 10 ° Elevation:	- 1.3 - 2.4 - 1.0
@ 20 ° Elevation:	+ 0.4 - 0.3 + 1.4
@ 30 ° Elevation:	+ 1.8 + 1.7 + 1.5
@ 60 - 90 ° Elevation:	> 4.5 +4.6/+22 > 2.7
BEAM WIDTH (3dB):	109 Deg. 115 Deg. 136 Deg.
AXIAL RATIO:	2 dB
LIGHTNING PROTECTION:	DC GROUNDING
LNA GAIN:	33 dB
LNA NOISE FIGURE:	2.2 dB
LNA P1dB Out:	+13 dBm
LNA DC POWER:	2.5V/20mA, 3V/20mA, 3.3V/20mA, (2.5-24)V/<30mA
REJECTION @ (-50/+50) MHz	-45 dB / -70 dB
@ (-100/+100) MHz	< -65 dB
POWER HANDLING:	1 Watt CW, Optional: 10 Watts 1 Microsec Pulse (-AL-)

MECHANICAL:

SIZE:	DIAMETER: 3.50 in. [88.90 mm] HEIGHT: 0.75 in. [18.97 mm] (for Active), 0.58" [14.73] (Passive) 7.90 oz. (224 g)
WEIGHT:	
FINISH:	SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDIUM 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:

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

QTY	DESCRIPTION	PART NO	MATERIAL	FINISH	QTY
1	Antenna Mount	MTR-1	-	-	6
4	MOUNTING SCREWS: 10-32, 3/4"	MS24693C274	-	-	5
A/R	WASHER, CUSTOM C'SINK	3G15P1001-7	-	-	3
1	ADHESIVE GASKET	123456-3M-3G	-	-	1
-2	-	-	-	-	-
QUANTITY REQD	DESCRIPTION	PART NO	MATERIAL	FINISH	QTY

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
FRACTIONS: DECIMALS: ANGLES:
± 1/64 .002 .015 ± 1°
TOLERANCE 5% PER AMS Y14.5
REWORK ALL SURFACES
BREAK EXTERNAL EDGES .005 TO .015
FILL IN .002 TO .015
DAYS ON A COASTAL & 25,000
MARINE SURFACES
DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

3.5" Dia.
L1 ACTIVE, OR PASSIVE
GPS ANTENNA

3C15V1 3G15X-XXR-X
SCALE 1/1
SHEET 1 OF 1

P/N: 3G15A-XTR-1

SIZE	FREQ. BAND	LNA
1: 2" SQ	1215: L1/L2	A: WITH 33 dB LNA, A2: WITH 20 dB LNA, A4: WITH 40 dB LNA
1.9: 1.9" SQ	15: L1 ONLY	P: WITHOUT LNA
2: 2.6" DIA		
3: 3.5" DIA		
4: MINI ARINC		

CABLE'S LENGTH	FEMALE CONNECTOR	COLOR
X: NO CABLE	S: SMA; RS: R-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
F: CABLE LENGTH (IN)	N: N.B; N: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	T: TB; TNC; 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:



**Combined Inmarsat & L1/L2 GPS Antennas, P/N: 3G1216P-NX-X:
3.5" Diameter Configurations, Flat, Front/back Mount, Side Connector**



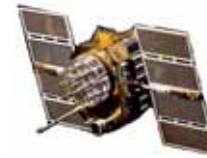
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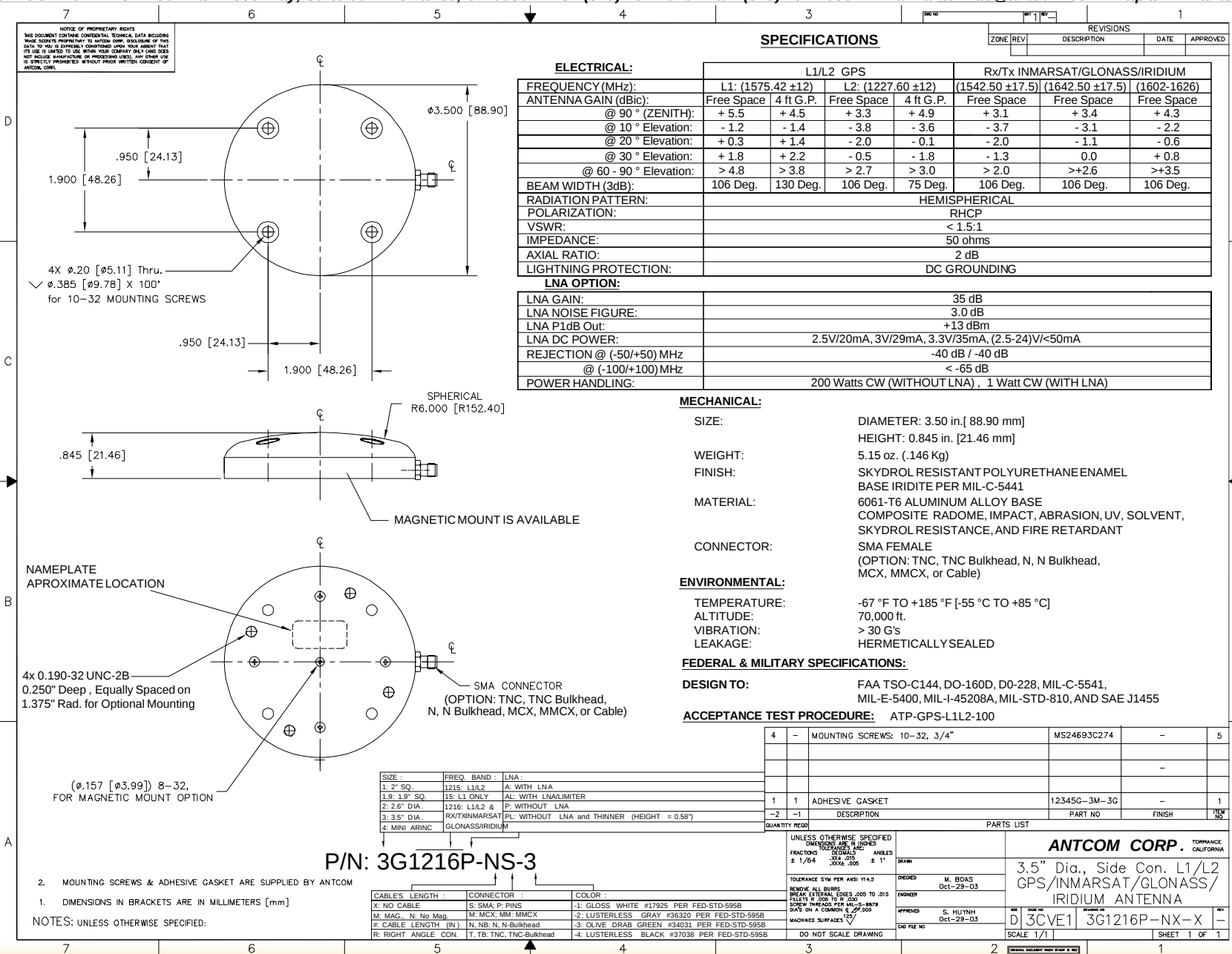
Hermetically Sealed, Designed for Harsh Environment Applications.
Connector is Available in SMA, MCX, MMCX, TNC, TNC-B, N, or N-Bulkhead (See Drawing)



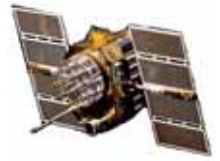
Combined Inmarsat & L1/L2 GPS Antennas, P/N: 3G1216P-XX-X: 3.5" Diameter Configurations, Flat, Front/back Mount, Side Connector



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Active or Passive L1 GPS Antennas, P/N: 3GO15X-XX-X: 3.5" Diameter, Survey and Pipe Mount Configurations



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P/N: 5GO15A-XX-4

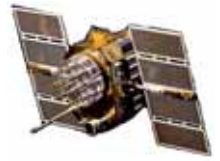
P/N: 5GO15A-XN-1 (N)



**P/N: 5GO15A-XT-3
(TNC)**



Active or Passive L1 GPS Antennas, P/N: 3GC15X-XX-X: 3.5" Square, Conformal Configurations



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P/N: 3CG15P-RS-E-3



P/N: 3CG15P-RS-E-4



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

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



Active or Passive L1 GPS Antennas, P/N: 31G15X-XX-X: 3.5" Diameter, Low Weight Configurations



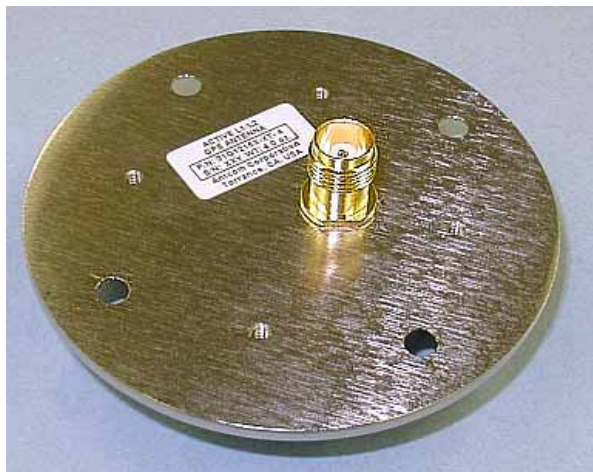
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P/N: 31G15X-XX-4 (Black)



P/N: 31G15X-XX-1 (White)



P/N: 31G15X-XT-X (TNC)



P/N: 31G15X-XS-X (SMA)



P/N: 31G15X-XN-X (TNC)

Hermetically Sealed, Designed for Harsh Environment Applications.

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



Active or Passive L1 GPS Antennas, P/N: 2G15X-XX-X: 2.6" Diameter, Bulkhead/Back Mount Configurations



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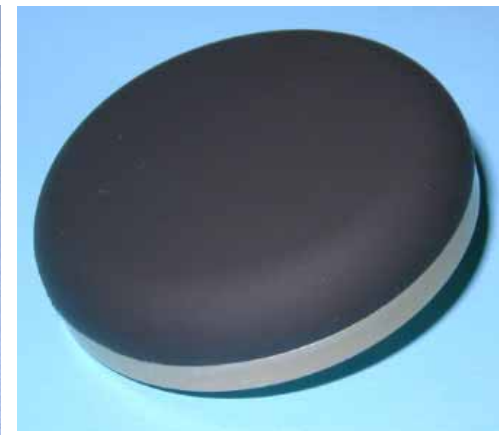
P/N: 2G15X-XX-1 (White)



P/N: 2G15X-XX-1 (Gray)



P/N: 2G15X-XX-3 (Green)



P/N: 2G15X-XX-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: 2G15X-XS-X



P/N: 2G15X-XT-X



P/N: 2G15X-XTB-X



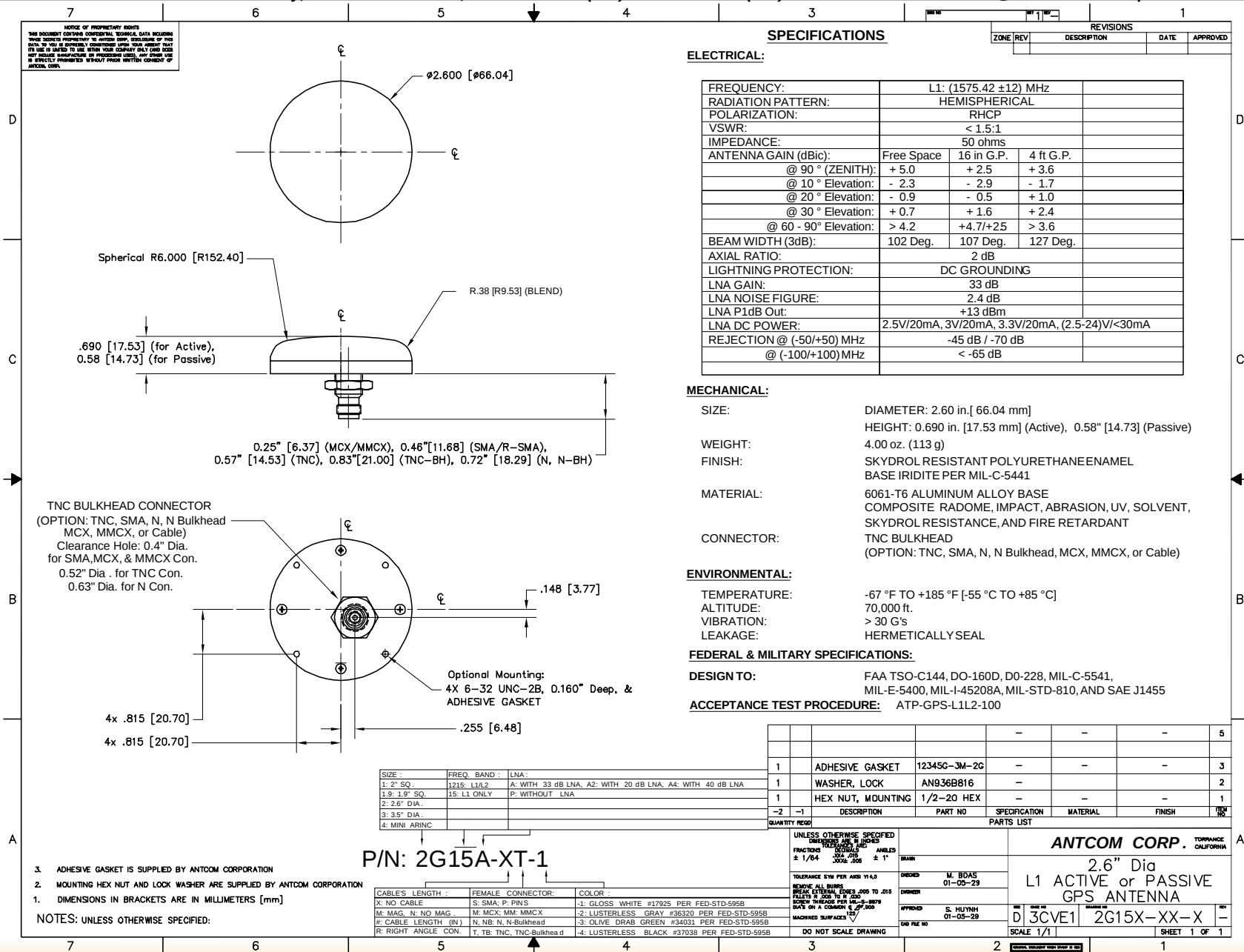
P/N: 2G15X-XN-X



Active or Passive L1 GPS Antenna, P/N: 2G15X-XX-X: 2.6" Diameter, Bulkhead/Back Mount Configuration

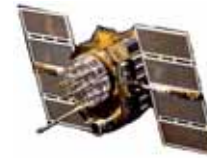


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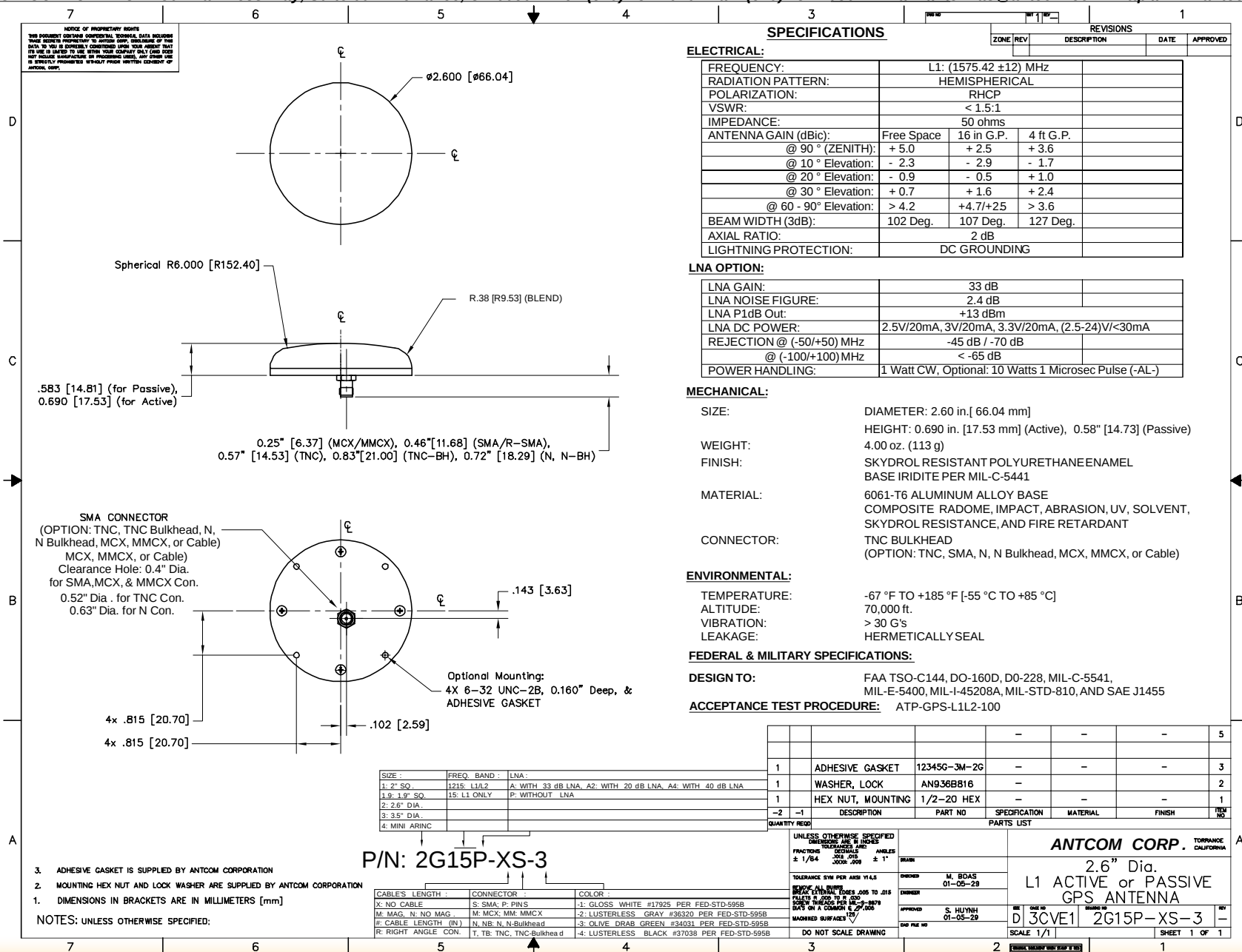




Passive L1 GPS Antenna, P/N: 2G15P-XX-X: 2.6" Diameter, Bulkhead/Back Mount Configuration



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Active or Passive L1 GPS Antennas, P/N: 2G15X-XMT-X: 2.6" Diameter, Flat or Magnetic Mount Configurations



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P/N: 2G15X-XXT-3, Green

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

**Other Connector is
Available**

(See Drawing)



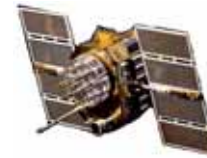
**P/N: 2G15X-XXT-4,
Black**



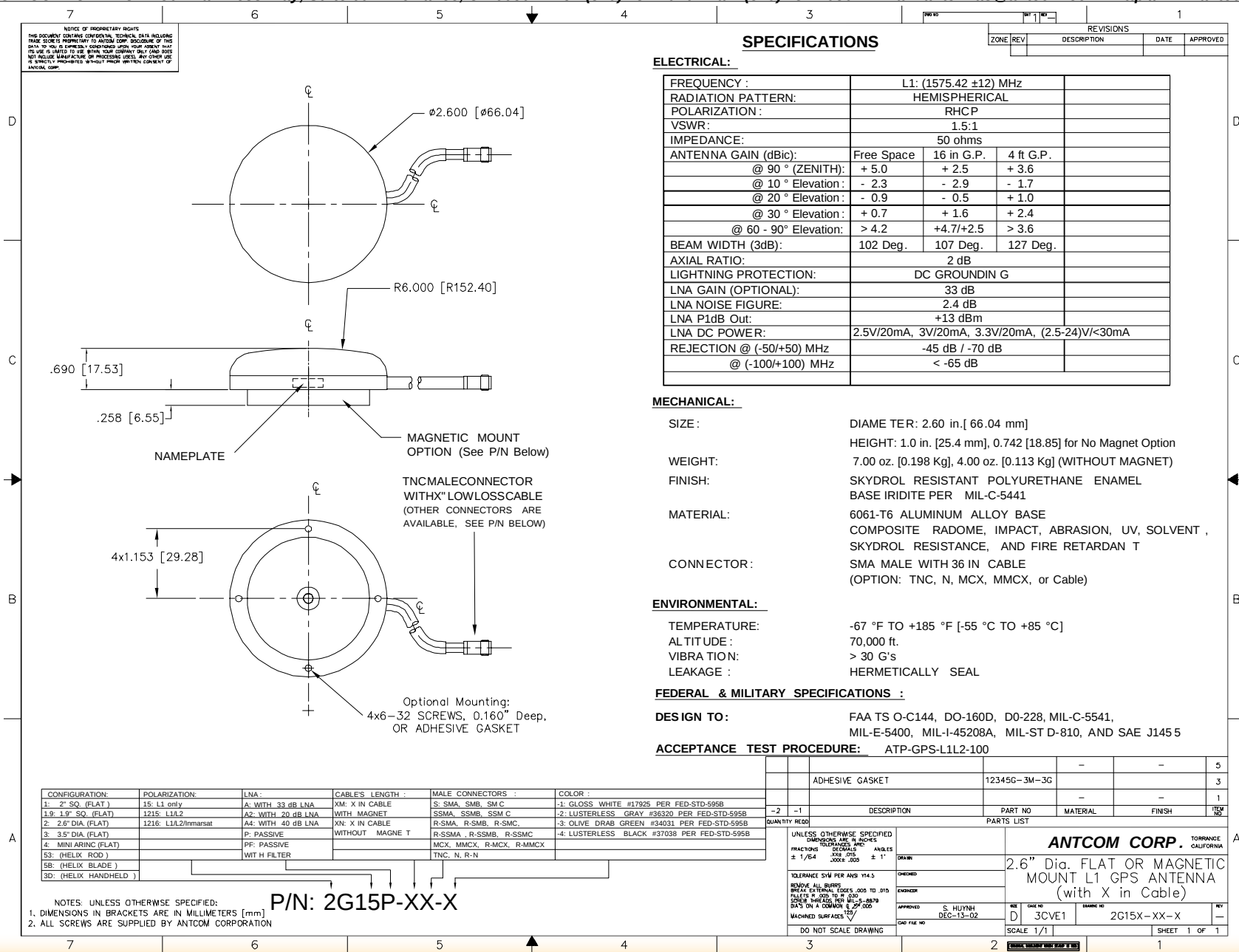
**P/N: 2G15X-XMT-1,
White**



Active or Passive L1 GPS Antenna, P/N: 2G15X-XX-X: 2.6" Diameter, Flat or Magnetic Mount Configuration



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Active or Passive L1 GPS Antennas, P/N: 2G15X-XMX-X: 2.6" Diameter, Magnetic Mount Configurations



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P/N: 2G15X-MS-3



P/N: 2G15X-MS-1



P/N: 2G15X-MS-4

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

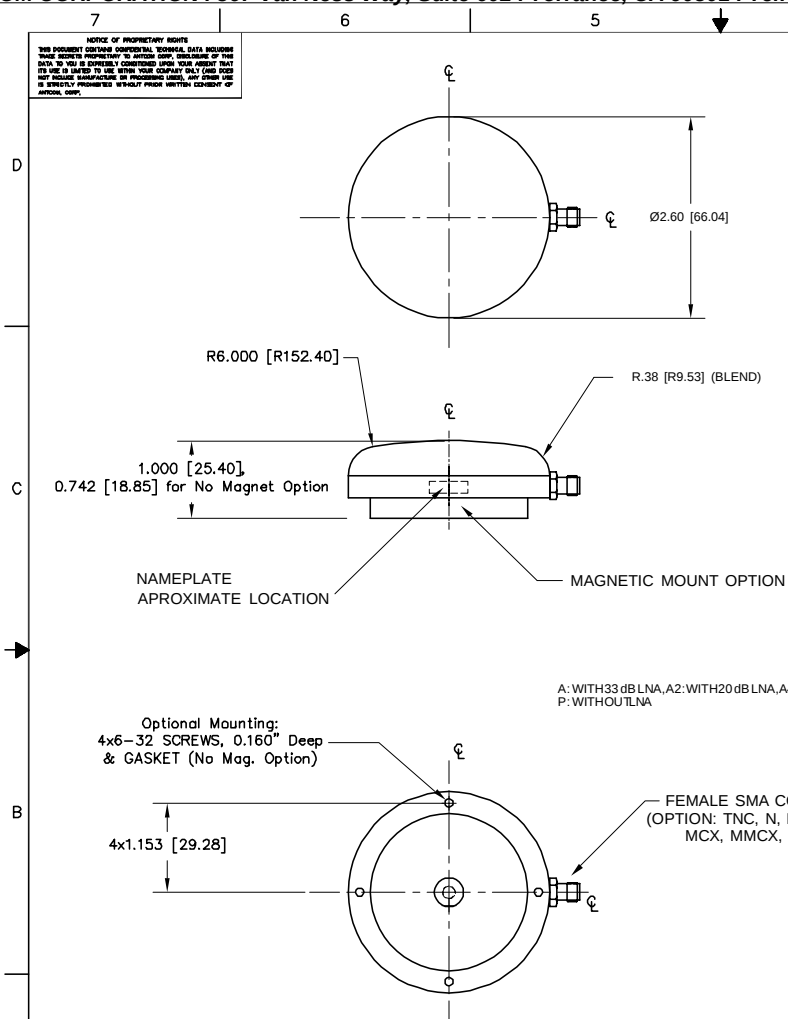
**Connector is
Available in SMA,
MCX, MMCX,
TNC, TNC-B, N, or
N-Bulkhead
(See Drawing)**



P/N: 2G15X-196MT-1



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A: WITH 33 dB LNA, A2: WITH 20 dB LNA, A4: WITH 40 dB LNA
P: WITHOUT LNA

Optional Mounting:
4x6-32 SCREWS, 0.160" Deep
& GASKET (No Mag. Option)

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

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

SPECIFICATIONS

ELECTRICAL:			
FREQUENCY:	L1: (1575.42 ±12) MHz		
RADIATION PATTERN:	HEMISPHERICAL		
POLARIZATION:	RHCP		
VSWR:	< 1.5:1		
IMPEDANCE:	50 ohms		
ANTENNA GAIN (dBi):	Free Space	16 in G.P.	4 ft G.P.
@ 90 ° (ZENITH):	+ 5.0	+ 2.5	+ 3.6
@ 10 ° Elevation:	- 2.3	- 2.9	- 1.7
@ 20 ° Elevation:	- 0.9	- 0.5	+ 1.0
@ 30 ° Elevation:	+ 0.7	+ 1.6	+ 2.4
@ 60 - 90° Elevation:	> 4.2	+4.7/+25	> 3.6
BEAM WIDTH (3dB):	102 Deg.	107 Deg.	127 Deg.
AXIAL RATIO:	2 dB		
LIGHTNING PROTECTION:	DC GROUNDING		
LNA GAIN:	33 dB		
LNA NOISE FIGURE:	2.4 dB		
LNA P1dB Out:	+13 dBm		
LNA DC POWER:	2.5V/20mA, 3V/20mA, 3.3V/20mA, (2.5-24)V/<30mA		
REJECTION @ (-50/+50) MHz	-45 dB / -70 dB		
@ (-100/+100) MHz	< -65 dB		
POWER HANDLING:	1 Watt CW. Optional: 10 Watts 1 Microsec Pulse (-AL-)		

MECHANICAL:

SIZE:	DIAMETER: 2.60 in.[66.04 mm]
	HEIGHT: 1.0 in. [25.4 mm], 0.742 [18.85] for No Magnet Option
WEIGHT:	7.00 oz. [0.198 Kg], 4.00 oz. [0.113 Kg] (WITHOUT MAGNET)
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, N, 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 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

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

				-	-	5
1		ADHESIVE GASKET	12345G-3M-2G	-	-	3
1						2
1				-	-	1
-2	-1	DESCRIPTION	PART NO	MATERIAL	FINISH	1

P/N: 2G15A-MS-1

CABLE'S LENGTH :	FEMALE CONNECTOR:	COLOR :
S: SMA; P: PINS	M: MCX; P: MMCX	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAG. N: NO MAG.	N: NB; N: Bulkhead	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
T, TB: TNC, TNC-Bulkhead	T, TB: TNC, TNC-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
		-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
 $\pm 1/64$.005 .001 $\pm 1^\circ$
TOLERANCE SYM PER ANSI Y14.5
REMOVE ALL DIMS
BUT LATERAL DIMS .005 TO .015
FILLETS R .005 TO R .030
SCREW THREADS PER UN-3-9878
DIA'S ON A COMMON $\pm .0006$
MACHINED SURFACES ∇_{125}
DO NOT SCALE DRAWING

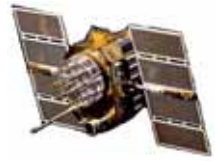
ANTCOM CORP.

	2.6 in Dia. Flat or Mag.
	Mount ACTIVE or PASSIVE
	L1 GPS ANTENNA
REV	DATE MOD
	REWORK/UP
REV	

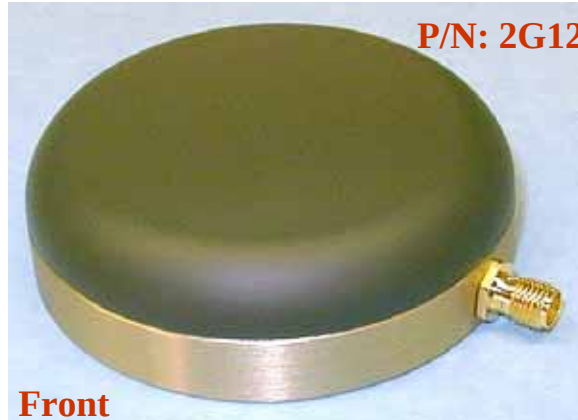
D	3C	VE1	2G15X-MX-X	-
SCALE 1/1			SHEET 1 OF 1	



Combined Inmarsat & L1/L2 GPS Antennas, P/N: 2G1216P-NS-3 : 2.6" Diameter, Shoulder Mount Configurations



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Front

P/N: 2G1216P-NS-3



26in Low Loss Cable,
P/N: SMA-M-LMRF-26in-SMA-M



Antenna/Cable



Hermetically Sealed,
Designed for Harsh
Environment
Applications.

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

Manual electrical switch
can be added on to switch to
LHCP signal reception

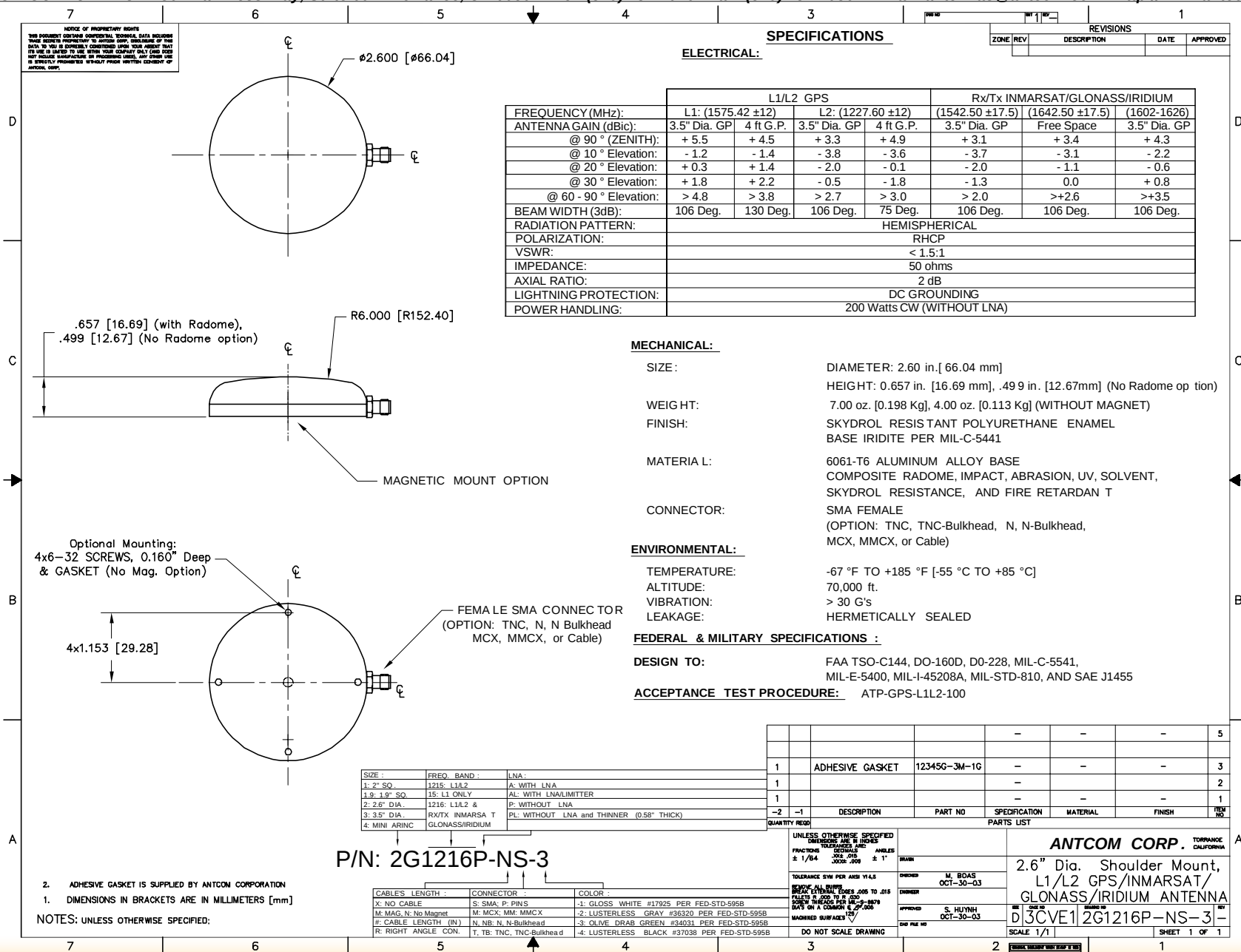


Combined Inmarsat & L1/L2 GPS Antennas, P/N: 2G1216P-NS-3 :

2.6" Diameter, Shoulder Mount Configurations



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Active or Passive L1 GPS Antennas, P/N: 4G15X-XX-X: (3.4" x 2.2") Mini Arinc Configurations



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P/N: 4G15X-XX-2



P/N: 4G15X-XX-3



P/N: 4G15X-XX-4



P/N: 4G15X-XX-1

P/N: 4G15X-XS-X



P/N: 4G15X-XTB-X

P/N: 4G15X-XN-X

P/N: 4G15X-XS-X

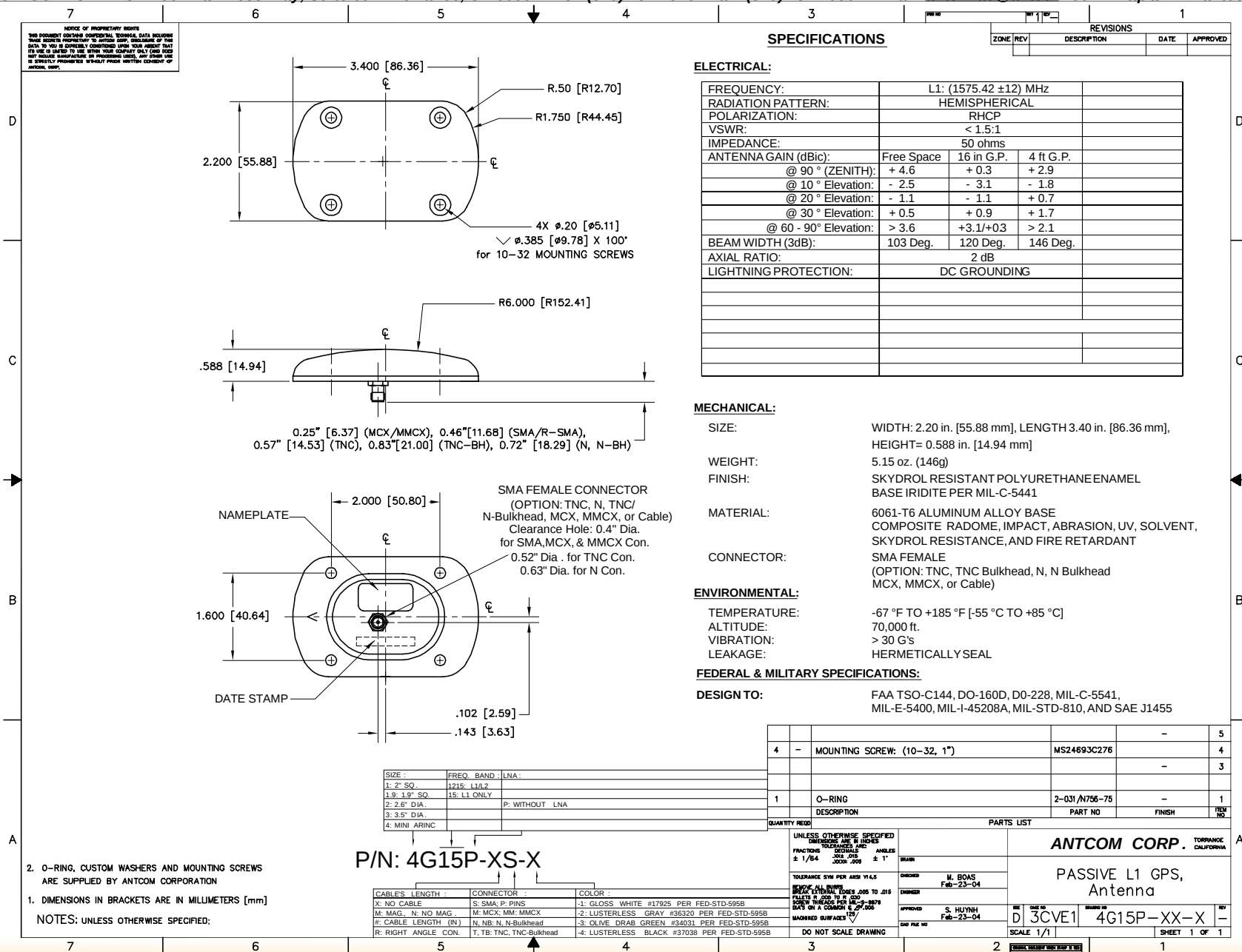
Hermetically Sealed, Designed for Hash Environment Applications. Connector is Available in SMA, MCX, MMCX, TNC, TNC-B, N, or N-Bulkhead (See Drawing)



Passive L1 GPS Antenna, P/N: 4G15P-XX-X: (3.4" x 2.2") Mini Arinc Configuration

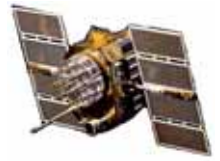


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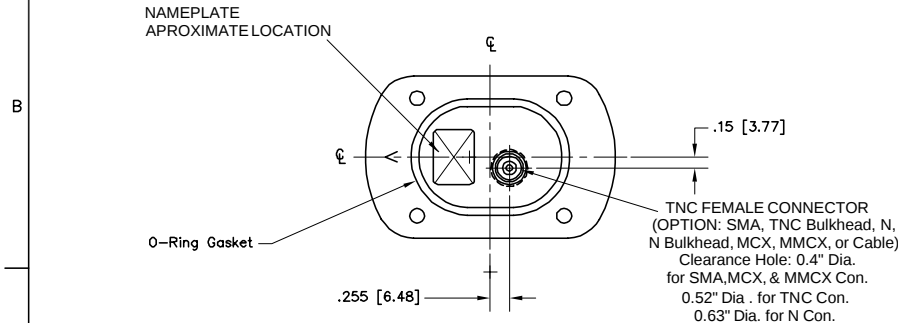
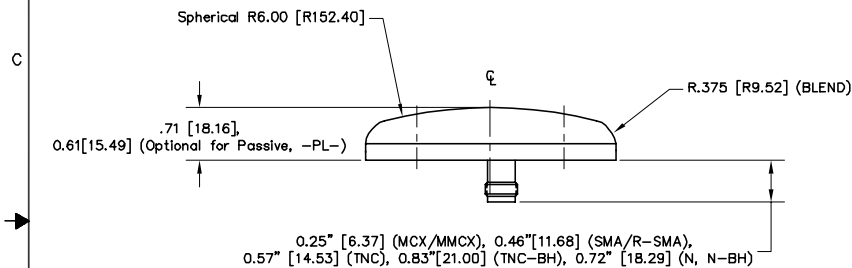
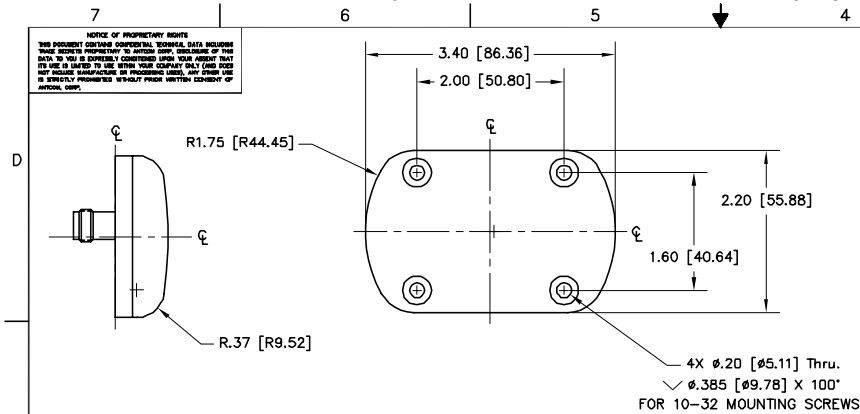




Active L1 GPS Antenna, P/N: 4G15A-XX-X: (3.4" x 2.2") Mini Arinc Configuration



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SIZE	FREQ. BAND	LNA
1: 2" SQ.	1215: L1/L2	A: WITH 33 dB LNA, A2: WITH 20 dB LNA, A4: WITH 40 dB LNA
1.8: 1.8" SQ.	15: L1 ONLY	P: WITHOUT LNA
2: 2.6" DIA.		
3: 3.5" DIA.		
4: MINI ARINC		

P/N: 4G15A-XT-1

CABLES LENGTH	FEMALE CONNECTOR	COLOR
X: NO CABLE	S: SMA, RS: R-SMA, P: PINS	1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAC, N: NO MAG	M: MCX, MM: MMCX	2: LUSTERLESS GRAY #36320 PER FED-STD-595B
P: CABLE LENGTH (IN)	N: NB, N: N-Bulkhead	3: OLIVE DRAB GREEN #34931 PER FED-STD-595B
R: RIGHT ANGLE CON.	T: TB: TNC, TNC-Bulkhead	4: LUSTERLESS BLACK #37038 PER FED-STD-595B

SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	L1: (1575.42 ±12) MHz
RADIATION PATTERN:	HEMISPHERICAL
POLARIZATION:	RHCP
VSWR:	< 1.5:1
IMPEDANCE:	50 ohms
ANTENNA GAIN (dBi):	Free Space 16 in G.P. 4 ft G.P.
@ 90 ° (ZENITH):	+ 4.6 + 0.3 + 2.9
@ 10 ° Elevation:	- 2.5 - 3.1 - 1.8
@ 20 ° Elevation:	- 1.1 - 1.1 + 0.7
@ 30 ° Elevation:	+ 0.5 + 0.9 + 1.7
@ 60 - 90 ° Elevation:	> 3.6 +3.1/+0.3 > 2.1
BEAM WIDTH (3dB):	103 Deg. 120 Deg. 146 Deg.
AXIAL RATIO:	2 dB
LIGHTNING PROTECTION:	DC GROUNDING
LNA GAIN:	33 dB
LNA NOISE FIGURE:	2.2 dB
LNA P1dB Out:	+13 dBm
LNA DC POWER:	2.5V/20mA, 3V/20mA, 3.3V/20mA, (2.5-24)V/<30mA
REJECTION @ (-50/+50) MHz	-45 dB / -70 dB
@ (-100/+100) MHz	< -65 dB
POWER HANDLING:	1 Watt CW, Optional: 10 Watts 1 Microsec Pulse (-AL-)

MECHANICAL:

SIZE:	WIDTH: 2.20 in. [55.88 mm], LENGTH 3.40 in. [86.36 mm], HEIGHT: 0.71 in. [18.16 mm], 0.61" [15.49] (Optional for Passive)
WEIGHT:	5.15 oz. (146g)
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 FEMALE (OPTION: SMA, 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 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
------------	--

QUANTITY REQD	DESCRIPTION	PART NO	FINISH	QTY
4	MOUNTING SCREWS for -PL- ONLY: (10-32, 3/4")	MS24693C274	-	5
4	MOUNTING SCREW: (10-32, 1")	MS24693C276	-	4
				3
1	O-RING	2-031/N756-75	-	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 ± .005 ± .010 ± 1°	BRUSH
TOLERANCE SIZE PER ANSI Y14.5 BREAK ALL DIMS BREAK INTERNAL DIMS .010 TO .015 PLUS .005 TO .010 DIMS ON A COUSIN 1/8" TO 1/2" MOUNTED SURFACES	DESIGNED BY M. BOAS July-30-04 CHECKED BY S. HUYNH July-30-04 DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

OUTLINE DRAWING
L1 ACTIVE
GPS ANTENNA

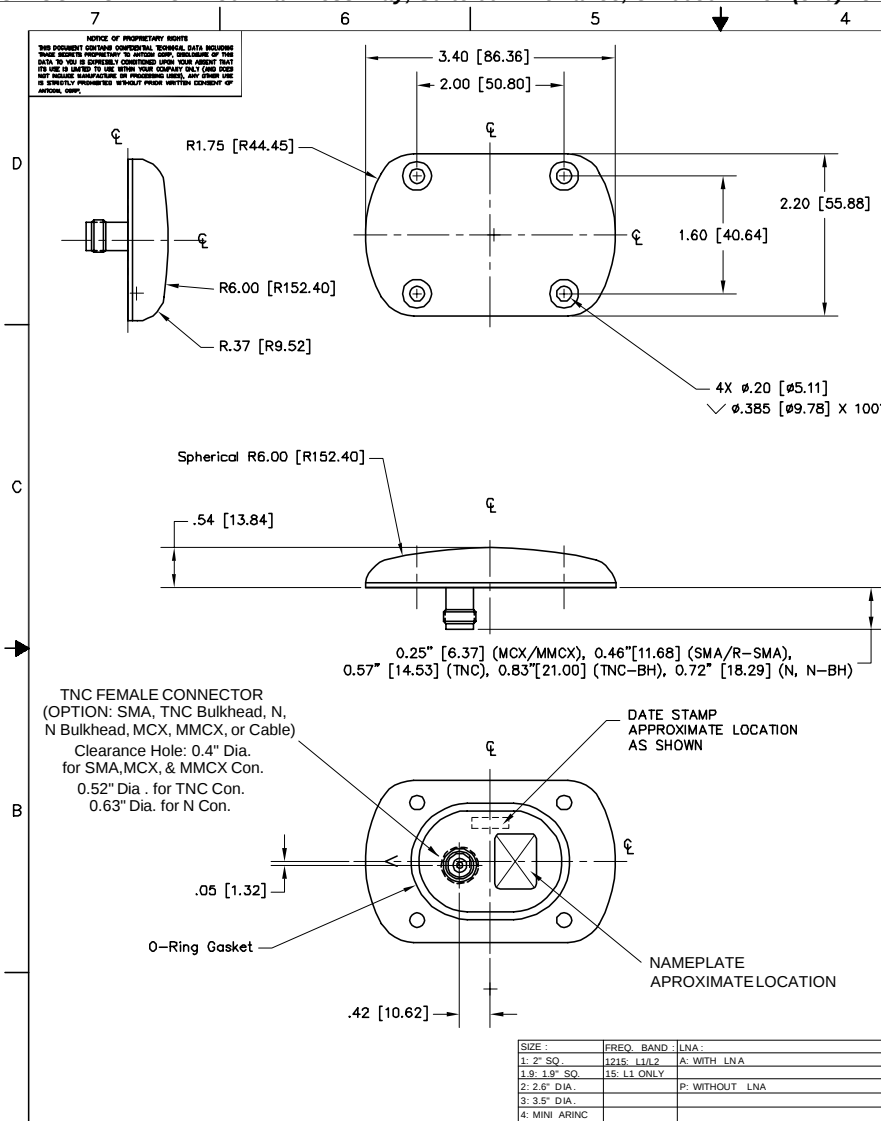
D 3CVE1	4G15A-XT-1	A
SCALE 1/1	SHEET 1 OF 1	



Active L1 GPS Antenna, P/N: 4G15A-XX-X-L: (3.4" x 2.2") Mini Arinc Configuration



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SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	L1: (1575.42 ±12) MHz
RADIATION PATTERN:	HEMISPHERICAL
POLARIZATION:	RHCP
VSWR:	< 1.5:1
IMPEDANCE:	50 ohms
ANTENNA GAIN (dBic):	Free Space 16 in G.P. 4 ft G.P.
@ 90 ° (ZENITH):	+ 4.6 + 0.3 + 2.9
@ 10 ° Elevation:	- 2.5 - 3.1 - 1.8
@ 20 ° Elevation:	- 1.1 - 1.1 + 0.7
@ 30 ° Elevation:	+ 0.5 + 0.9 + 1.7
@ 60 - 90 ° Elevation:	> 3.6 +3.1/+0.3 > 2.1
BEAM WIDTH (3dB):	103 Deg. 120 Deg. 146 Deg.
AXIAL RATIO:	2 dB
LIGHTNING PROTECTION:	DC GROUNDING
LNA GAIN:	27 dB
LNA NOISE FIGURE:	1.4 dB
LNA P1dB Out:	+13 dBm
LNA DC POWER:	(3-10) Volts/ 20mA

MECHANICAL:

SIZE:	WIDTH: 2.20 in. [55.88 mm], LENGTH 3.40 in. [86.36 mm], HEIGHT: 0.54 in [13.84 mm]
WEIGHT:	5.15 oz. (146g)
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 FEMALE (OPTION: SMA, 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 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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QUANTITY REQD	DESCRIPTION	PART NO	FINISH	NOTES
4	MOUNTING SCREW: (10-32, 1")	MS24693C276	-	5
1	O-RING	2-031/N756-75	-	1

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
FRACTIONS DECIMALS ANGLES
± 1/64 .002 .015 ± 1°
TOLERANCE 5% PER ASH Y14.5
BREAK ALL SHARP
BREAK EXTERNAL EDGES .005 TO .015
Fillet R. .005 TO .015
DAYS ON A COUGH 2 25,000
MACHINED SURFACES
DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

LOW COST
ACTIVE L1 GPS,
GSD Antenna

D 3CVE1 4G15A-XT-X-L-1

SCALE 1/1

SHEET 1 OF 1

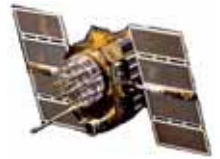
P/N: 4G15A-XT-1-L

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
P: CABLE LENGTH (IN)	N: NB; N: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	T, TB: TNC; TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

2. O-RING, CUSTOM WASHERS AND MOUNTING SCREWS ARE SUPPLIED BY ANTCOM CORPORATION
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
- NOTES: UNLESS OTHERWISE SPECIFIED:



Active or Passive L1 GPS Antennas, P/N: 42G15X-XX-X: (4.7" x 3.0") 743 Arinc Configurations



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P/N: 42G15X-XX-1



P/N: 42G15X-XX-4



P/N: 42G15X-XX-3

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

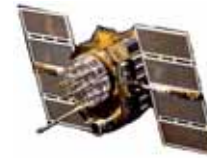
**Connector is Available
in SMA, MCX,
MMCX, TNC, TNC-B,
N, or N-Bulkhead
(See Drawing)**



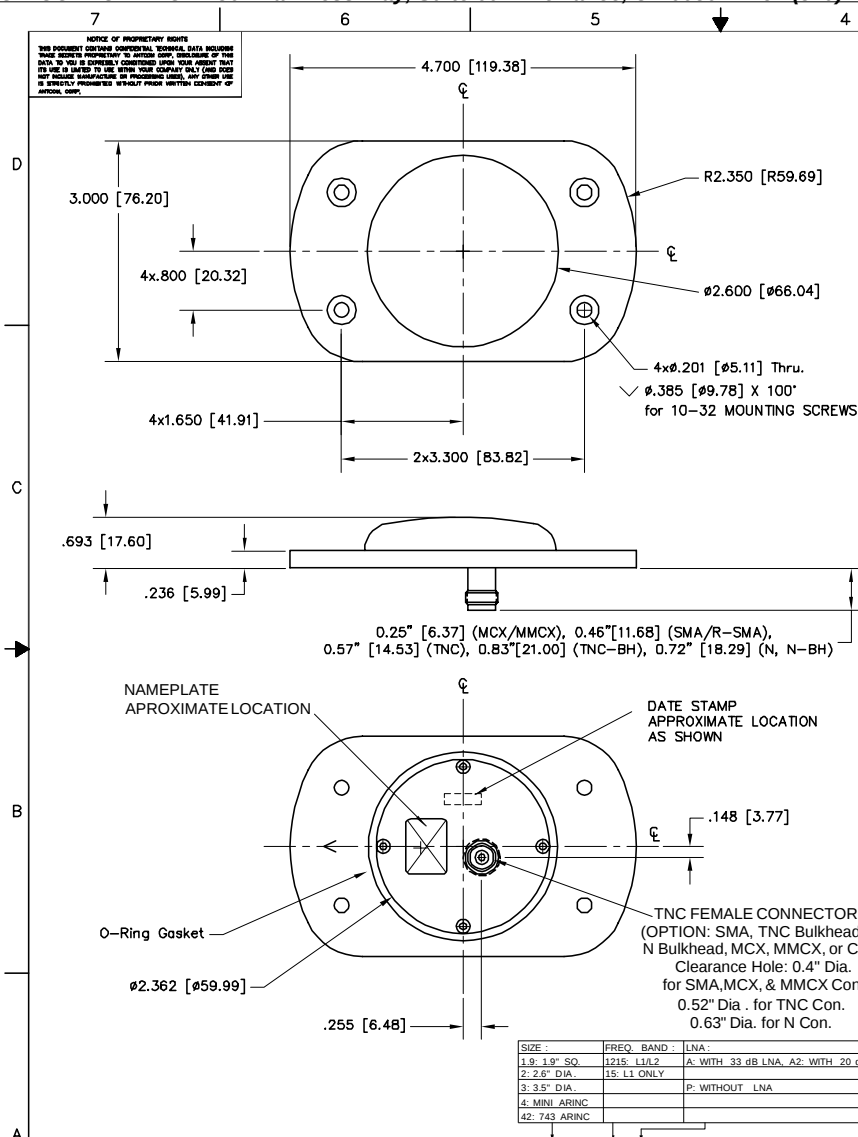
P/N: 42G15X-XT-X



Active or Passive L1 GPS Antenna, P/N: 42G15X-XX-X: (4.7" x 3.0") 743 Arinc Configuration



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SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	L1: (1575.42 $\pm$ 12) MHz
RADIATION PATTERN:	HEMISPHERICAL
POLARIZATION:	RHCP
VSWR:	< 1.5:1
IMPEDANCE:	50 ohms
ANTENNA GAIN (dBic):	Free Space 16 in G.P. 4 ft G.P.
@ 90 ° (ZENITH):	+ 4.6 + 0.3 + 2.9
@ 10 ° Elevation:	- 2.5 - 3.1 - 1.8
@ 20 ° Elevation:	- 1.1 - 1.1 + 0.7
@ 30 ° Elevation:	+ 0.5 + 0.9 + 1.7
@ 60 - 90 ° Elevation:	> 3.6 +3.1/+0.3 > 2.1
BEAM WIDTH (3dB):	103 Deg. 120 Deg. 146 Deg.
AXIAL RATIO:	2 dB
LIGHTNING PROTECTION:	DC GROUNDING
LNA GAIN:	33 dB
LNA NOISE FIGURE:	2.2 dB
LNA P1dB Out:	+13 dBm
LNA DC POWER:	2.5V/20mA, 3V/20mA, 3.3V/20mA, (2.5-24)V/<30mA
REJECTION @ (-50/+50) MHz	-45 dB / -70 dB
@ (-100/+100) MHz	< -65 dB
POWER HANDLING:	1 Watt CW, Optional: 10 Watts 1 Microsec Pulse (-AL-)

MECHANICAL:

SIZE:	WIDTH: 3.00 in. [76.20 mm], LENGTH 4.700 in. [119.38 mm], HEIGHT: 0.6930 in. [17.60 mm]
WEIGHT:	7.0 oz. (198 g)
FINISH:	SKYDROL RESISTANT POLYURETHANE ENAMEL WITH NICKEL PLATED BASE
MATERIAL:	6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT
CONNECTOR:	TNC FEMALE (OPTION: SMA, 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 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
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ACCEPTANCE TEST PROCEDURE:

QTY	DESCRIPTION	PART NO.	FINISH	REV.
4	MOUNTING SCREW: (10-32, 1")	MS24693C276	-	5
1	O-RING	2-036/N756-75	-	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± 1/64 .005 .010 ± 1°	ANTCOM CORP. TORRANCE, CALIFORNIA
743 Arinc, L1 ACTIVE GPS ANTENNA	
DO NOT SCALE DRAWING	

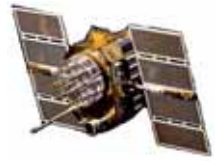
2. O-RING AND MOUNTING SCREWS ARE SUPPLIED BY ANTCOM
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
- NOTES: UNLESS OTHERWISE SPECIFIED:

P/N: 42G15A-XT-1

CABLES LENGTH	CONNECTOR	TOP 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
P: CABLE LENGTH (IN)	N: NB: N: N-Bulkhead	3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	T: TB: TNC, TNC-Bulkhead	4: LUSTERLESS BLACK #37038 PER FED-STD-595B



**Active or Passive L1 GPS Antennas,
(1.5" Sq. x 0.2" Thick), Small Size/Low Cost Configurations**



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Passive L1 GPS
P/N: 1.5BG15P-XS-2

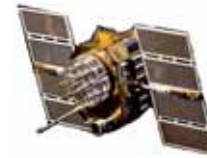


Active L1 GPS
P/N: 1.5BG15A-26S-X
Cable is available in different length

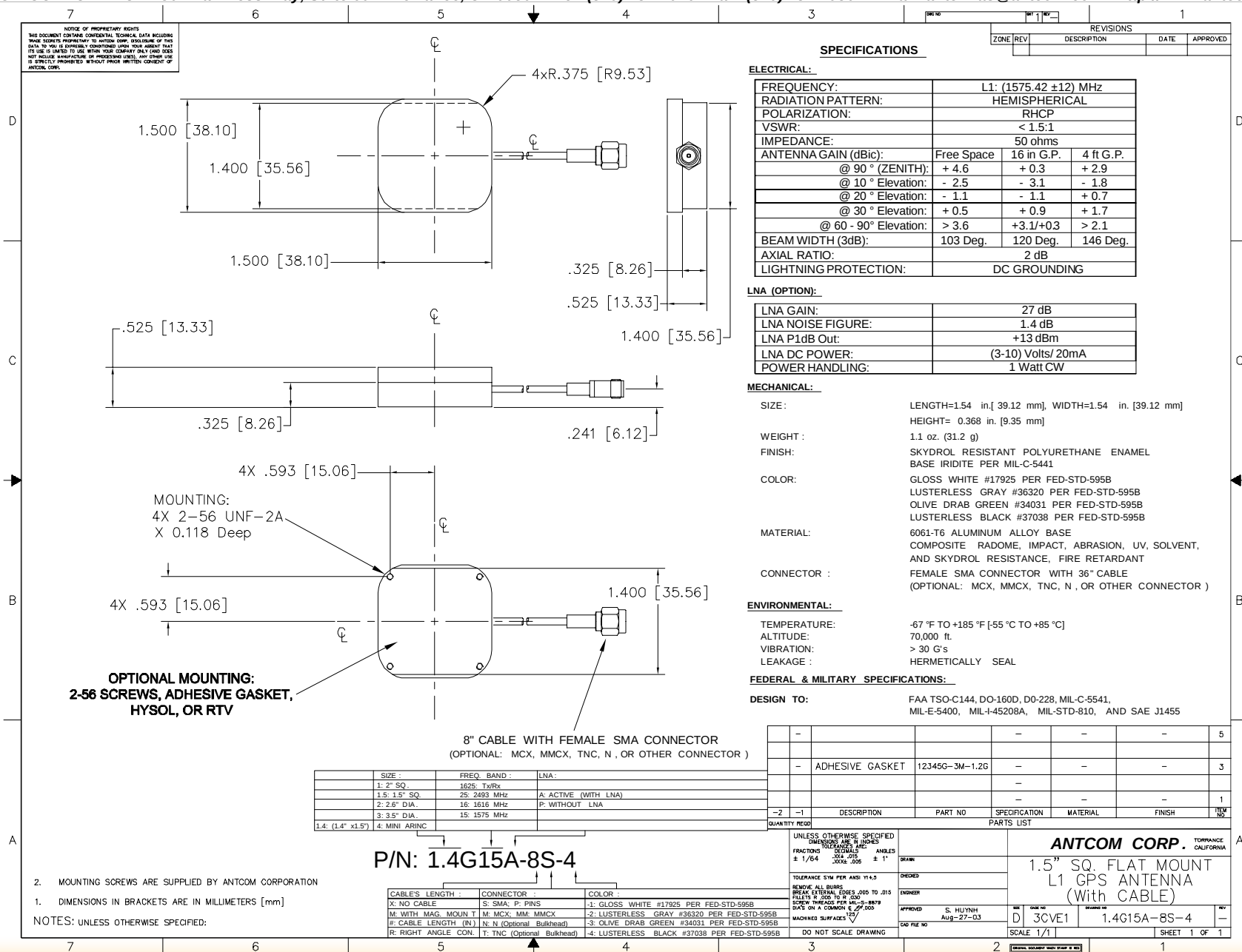
**Connector is Available in SMA, MCX, MMCX,
TNC, TNC-B, N, or N-Bulkhead**



Active L1 GPS Antenna, P/N: 1.4G15A-8S-4 : (1.4" x 1.5") Rectangular Configuration

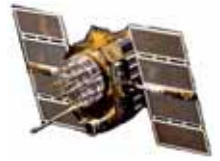


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Active or Passive L1 GPS Antennas, P/N: 1.5G15X-XX-X: 1.5" Square, Back Mount Configurations



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P/N: 1.5G15X-36S-2



P/N: 1.5G15X-24BMM-3



P/N: 1.5G15X-36S-3



P/N: 1.5G15X-24BMM-3

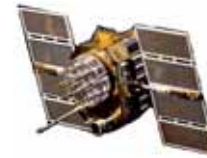


P/N: 1.5G15X-36S-3



P/N: 1.5G15X-XS-2

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



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TOP VIEW

2x 1.540 [39.12]

1.500 [38.10]

4x .593 [15.06]

MOUNTING:
4X 2-56 UNF-2A
X 0.118 Deep

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

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

SIZE :	FREQ. BAND :	LNA :
1: 2" SQ	1625: Tx/Rx	
1.5: 1.5" SQ	25: 2453 MHz	A: ACTIVE (WITH LNA)
2: 2.0" DIA.	16: 1616 MHz	P: WITHOUT LNA
3: 3.5" DIA.	15: 1575 MHz	
4: MINI ARINC		

ELECTRICAL:

FREQUENCY:	L1: (1575.42 ±12) MHz		
RADIATION PATTERN:	HEMISPHERICAL		
POLARIZATION:	RHCP		
VSWR:	< 1.5:1		
IMPEDANCE:	50 ohms		
ANTENNA GAIN (dBi):	Free Space	16 in G.P.	4 ft G.P.
@ 90 ° (ZENITH):	+ 4.6	+ 0.3	+ 2.9
@ 10 ° Elevation:	- 2.5	- 3.1	- 1.8
@ 20 ° Elevation:	- 1.1	- 1.1	+ 0.7
@ 30 ° Elevation:	+ 0.5	+ 0.9	+ 1.7
@ 60 - 90° Elevation:	> 3.6	+3.1/+0.3	> 2.1
BEAM WIDTH (3dB):	103 Deg.	120 Deg.	146 Deg.
AXIAL RATIO:	2 dB		
LIGHTNING PROTECTION:	DC GROUNDING		

LNA (OPTION):

LNA GAIN:	27 dB
LNA NOISE FIGURE:	1.4 dB
LNA P1dB Out:	+13 dBm
LNA DC POWER:	(3-10) Volts/ 20mA
POWER HANDLING:	1 Watt CW

MECHANICAL:

SIZE: LENGTH=1.54 in.[39.12 mm], WIDTH=1.54 in.[39.12 mm]
HEIGHT= 0.368 in.[9.35 mm]
WEIGHT : 1.1 oz. (31.2 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

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

P/N: 1.5G15A-24S-X

CABLE'S LENGTH :	CONNECTOR :	COLOR :
X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-5958
M: WITH MAG. MOUNT	M: MCX; MM: MMX	-2: LUSTERLESS GRAY #36320 PER FED-STD-5958
#: CABLE LENGTH (IN.)	N: N (Optional Bulkhead)	-3: OLIVE DRAB GREEN #34031 PER FED-STD-5958
R: RIGHT ANGLE CON.	T: TNC (Optional Bulkhead)	-4: LUSTERLESS BLACK #37038 PER FED-STD-5958

2. MOUNTING SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE		
FRACTIONS ± 1/64	DECIMALS JOKS .015 JOKC .009	ANGLES ± 1°
TOLERANCE SYN PER ANSI Y14.5		
BREAK ALL SHARP REMOVE ALL BURRS BREAK EXTERNAL EDGES .005 TO .015 FILLETS R .005 TO R .030 SCREW THREADS PER ANSI B-1.3-B7B DATA ON A COMMON MACHINES SURFACES		
DO NOT SCALE DRAWING		

ANTCOM CORP.

1.5" SQ. FLAT MOUNT
L1 GPS ANTENNA
(With CABLE)

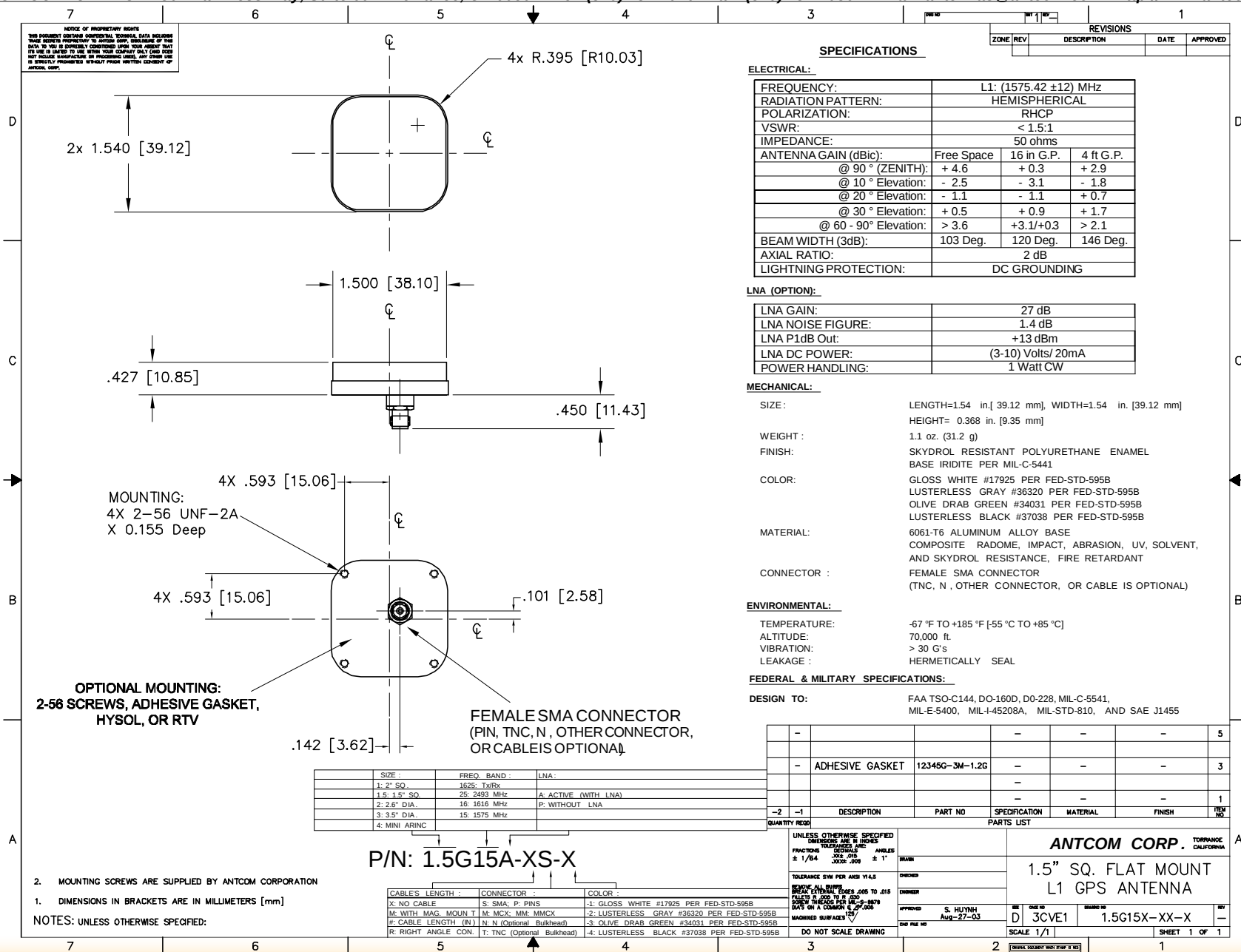
APPROVED	S. HUYNH Aug-27-03	REV	CHANGE NO	DRAWING NO
DWG FILE NO		D	3CVE1	1.5G15X-XX-X
		SCALE	1/1	SHEET 1 OF



L1 GPS Antennas, P/N: 1.5G15X-XX-X: 1.5" Square, Back Mount Configuration

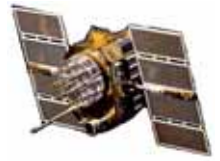


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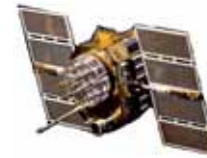


Active L1 GPS Antennas, P/N: 123G15A-XT-1:
12" Diameter Choke Ring, Pipe Mount Configuration



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D

4.125 [104.78]

R1.500 [R38.10]

C

Ø12.120 [Ø307.85]

DATE STAMP APPROXIMATE LOCATION AS SHOWN

TNC FEMALE CONNECTOR (SMA OR N TYPE IS OPTIONAL)

1.750 [44.45]

B

NAMEPLATE APPROXIMATE LOCATION

Helix Coil:
THD0.625-11UNC-2Bx0.72"Deep,

CHOKE SIZE:	ANT. SIZE:	FREQ. BAND:	LNA:
12: 12 in Dia.	1: 2" SQ.	1215: 11/12	A: WITH LNA
	1.8: 1.9" SQ.	15: 11 ONLY	AL: WITH LNA/LIMITER
	2: 2 6" DIA.		P: WITHOUT LNA
	3: 3.5" DIA.		
	4: MINI ARINC		

ELECTRICAL:

FREQUENCY:	L1:(1575.42±13) MHz	
RADIATIONPATTERN:	HEMISPHERICAL	
POLARIZATION:	RHCP	
VSWR:	< 1.5:1	
IMPEDANCE:	50 ohms	
GAIN (dBiC) & AR (dB)	GAIN	AR
@ 90° (Zenith):	+8.2	2.4
@ 10° Elevation:	-5.0	3.0
@ 20° Elevation:	-2.3	3.0
@ 30° Elevation:	-0.5	3.0
@ 45° Elevation:	+3.0	3.0
@ 70° Elevation:	+7.0	2.0
BEAM WIDTH (3dB)	70.0 Deg.	
LIGHTNINGPROTECTION:	DC GROUNDING	
LNA GAIN:	33 dB	
LNA NOISE FIGURE:	2.2 dB	
LNA P1dB Out:	+13 dBm	
LNA DC POWER:	2.5V/20mA, 3V/20mA, 3.3V/20mA, (2.5-24)V/<30mA	
REJECTION @ (-50/+50) MHz	-45 dB / -70 dB	
@ (-100/+100) MHz	< -65 dB	
POWERHANDLING:	1 Watt CW. Optional: 10 Watts 1 Microsec Pulse (-AL-)	

MECHANICAL:

SIZE:	DIAMETER: 12.120 in [307.85 mm] HEIGHT: 4.125 in. [104.78 mm]
WEIGHT:	4.5 lbs. (2.04 Kg)
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
CONNECTOR:	TNC FEMALE (SMA, OR N TYPE IS OPTIONAL)

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 SCREWS	MS24693C273	5
1	1	INTERNAL ANTENNA / CABLE	3G15A-XS-1 / RG316-2134 - 5.5"	4
1	1	CHOKE RING ADAPTER	12G1215P001-B4	3
1	1	CHOKE RING / PLUGS	12G1215P001-B3 / 85985K12	2
1	1	RADOME	12G1215-R2-1	1
-2	-1	DESCRIPTION	PART NO	ITEM NO

P/N: 123G1215A-XT-1

2. MOUNTING SCREWS ARE SUPPLIED BY ANTICOM CORPORATION
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: MMX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
#: CABLE LENGTH (IN)	N: NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE (CON)	T: TB: TNC, TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
 $\pm 1/64$.001 .015 $\pm 1^\circ$
.0002 .0005
TOLERANCE .5% PER ANSI Y14.5
REMOVE ALL BURRS
SURF. EXTERNAL EDGES .005 TO .015
FILLETS $\sqrt{.005}$ TO $\sqrt{.030}$
SCREW THREADS PER MIL-S-8879
DIA'S ON A COMMON $\sqrt{.005}$
MACHINED SURFACES $\sqrt{.125}$
DO NOT SCALE DRAWING

DATE	
DRAWN	
CHECKED	
ENGINEER	
APPROVED	S. HUYNH
	02-08-13
CAD FILE NO	

ANTCOMCORP TORRANCE, CALIF.
 OUTLINE DRAWING
 ACTIVE L1 CHOKE RING
 GPS ANTENNA

SIZE	DATE	DESIGN NO.	
D	3CVE1	123G15A-XT-1	
SCALE 1/1		SHEET 1 OF 1	



Active L1 GPS Antenna, P/N: 123GM15A-XT-1:
12" Diameter Choke Ring, Pipe Mount Configuration



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**L1 or L1L2 GPS & Inmarsat/Iridium/Glonass 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.

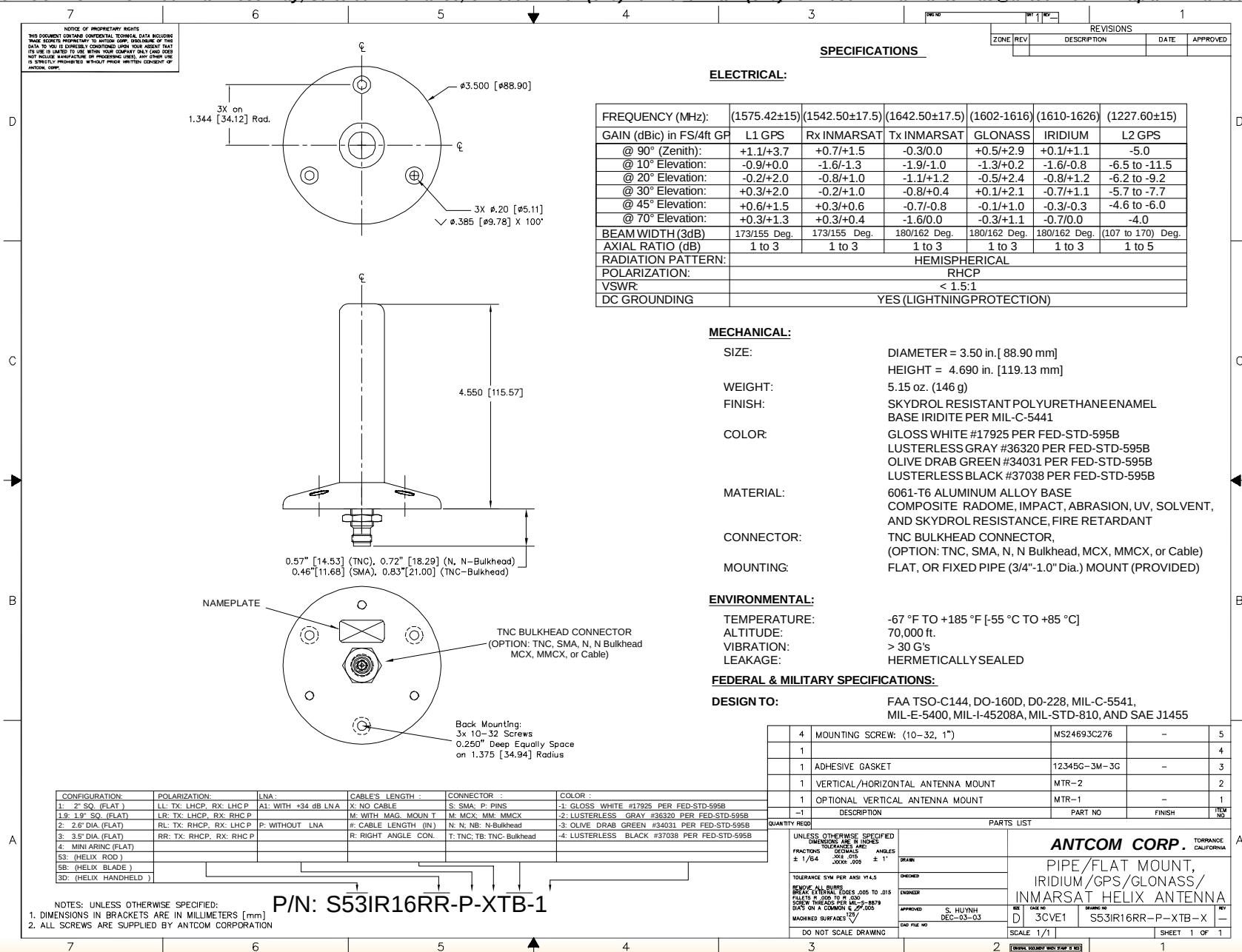
Connector is Available in SMA, MCX, MMCX, TNC, TNC-B, N, or N-Bulkhead (See Drawing)



L1 or L1L2 GPS & Inmarsat/Iridium/Glonass Antennas, P/N: S53IR16RR-X-XX-X: 3.5" Diameter x 4.5" Tall, Pipe/Flat Mount Configurations



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**GPS-Inmarsat-Iridium-Glonass 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**



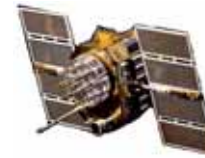
**P/N: S52IR16RR-P-MT-1 (White),
S52IR16RR-P-MT-4 (Black),
S52IR16RR-P-MT-3 (Green)
2.6" Diameter x 4.5" Tall**

Hermetically Sealed, Designed for Harsh Environment Applications.

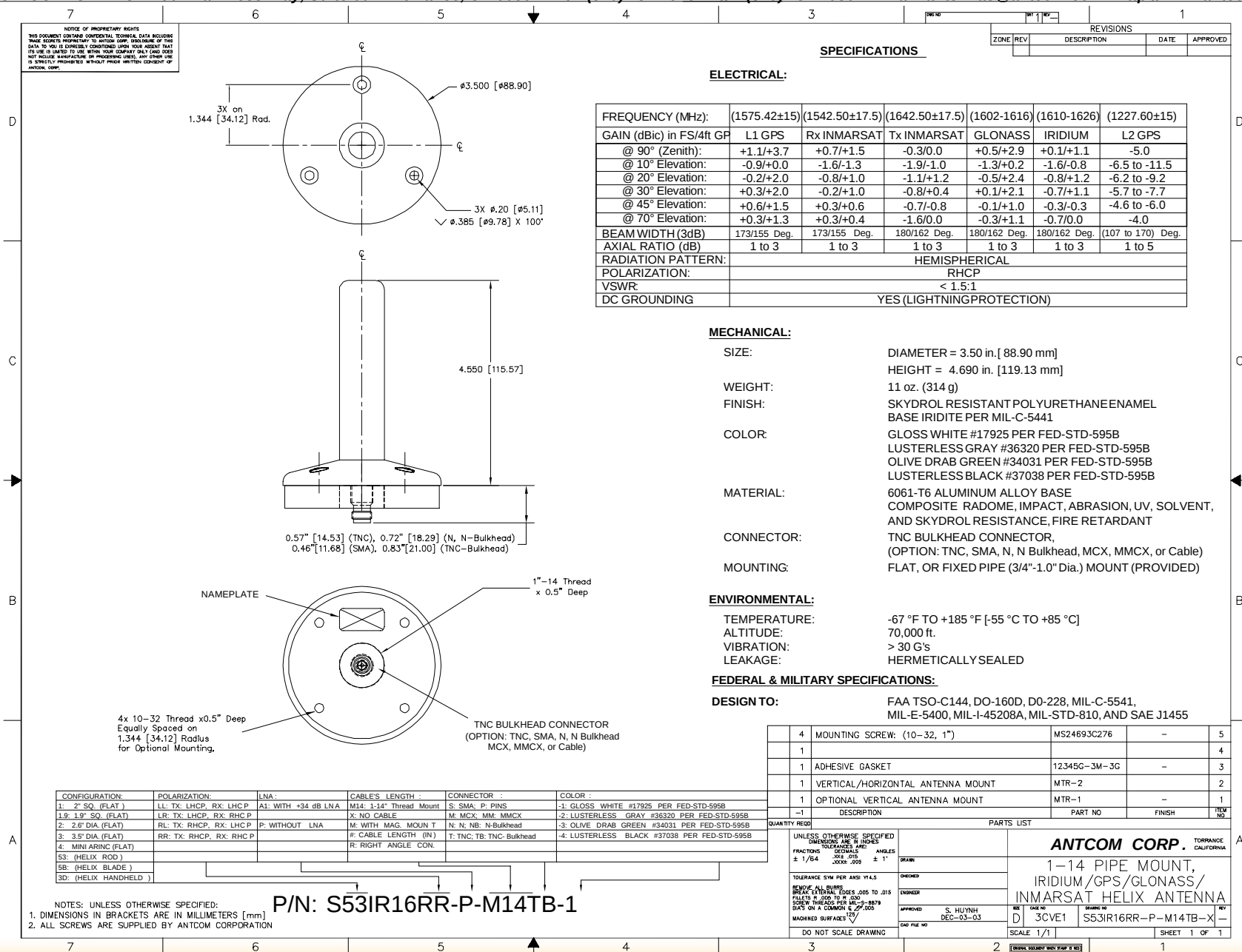
Connector is Available in SMA, MCX, MMCX, TNC, TNC-B, N, or N-Bulkhead (See Drawing)



GPS-Inmarsat-Iridium-Glonass 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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**L1 or L1L2 GPS & Inmarsat/Iridium/Glonass Antennas, P/N: S5BIR16RR-P-XX-X:
4.6" Tall Blade Configurations**



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S5BIR16RR-P-XT-2

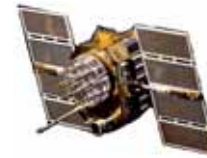


**Hermetically Sealed, Designed for
Harsh Environment Applications.**

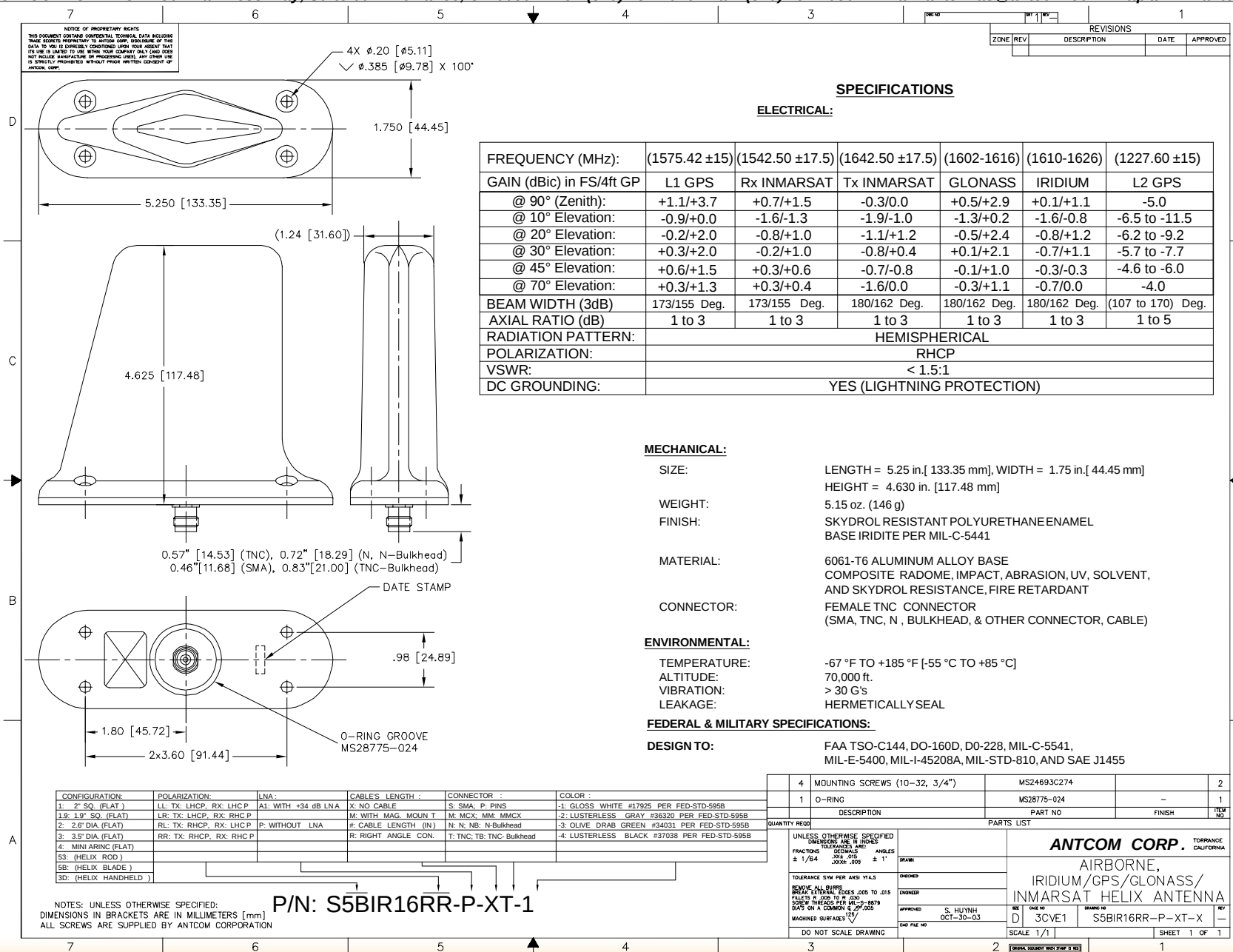
**Connector is Available in SMA,
MCX, MMCX, TNC, TNC-B, N, or
N-Bulkhead (See Drawing)**



L1 or L1L2 GPS & Inmarsat/Iridium/Glonass Antennas, P/N: S5BIR16RR-P-XX-X: 4.6" Tall Blade Configurations



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**(L1 or L1L2 GPS) & Inmarsat/Iridium/Glonass Antennas, P/N: 3D1216P-4.5MM-3:
1" Diameter x 4.2" Tall, Swivel, Side Mount Configurations**

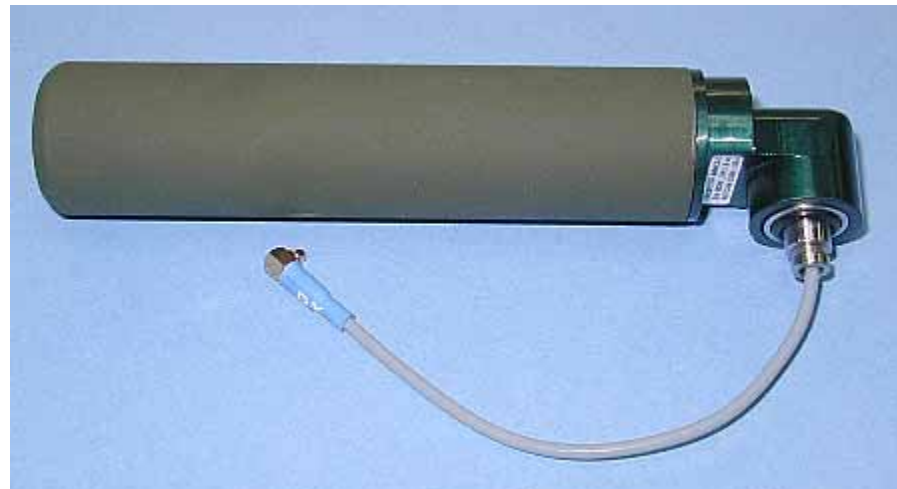


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**Hermetically Sealed,
Designed for Harsh
Environment
Applications.**

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

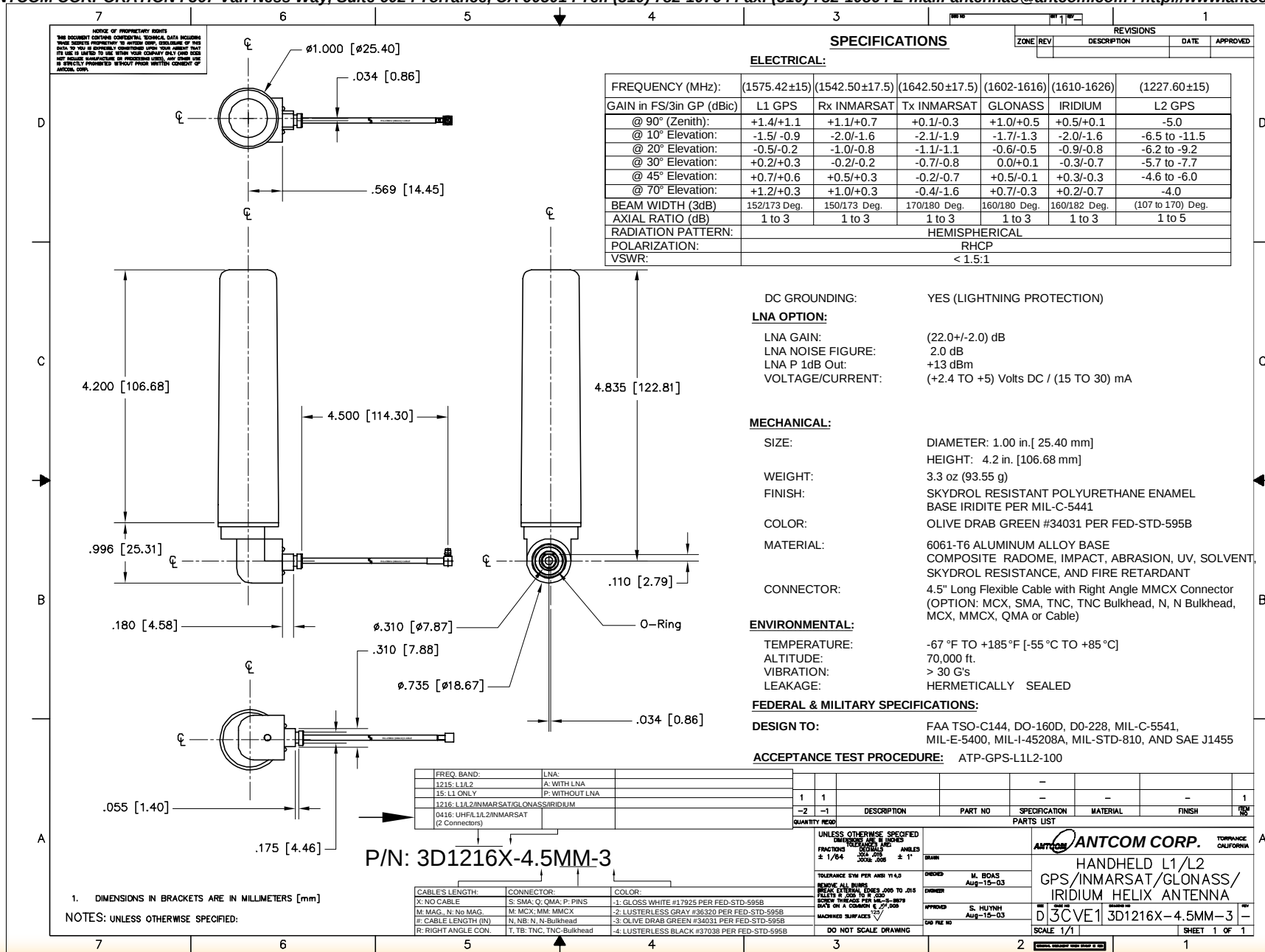




L1 or L1L2 GPS & Inmarsat/Iridium/Glonass Antennas, P/N: 3D1216P-4.5MM-3: 1" Diameter x 4.2" Tall, Swivel, Side Mount Configurations

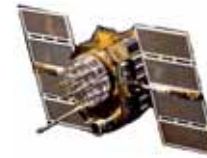


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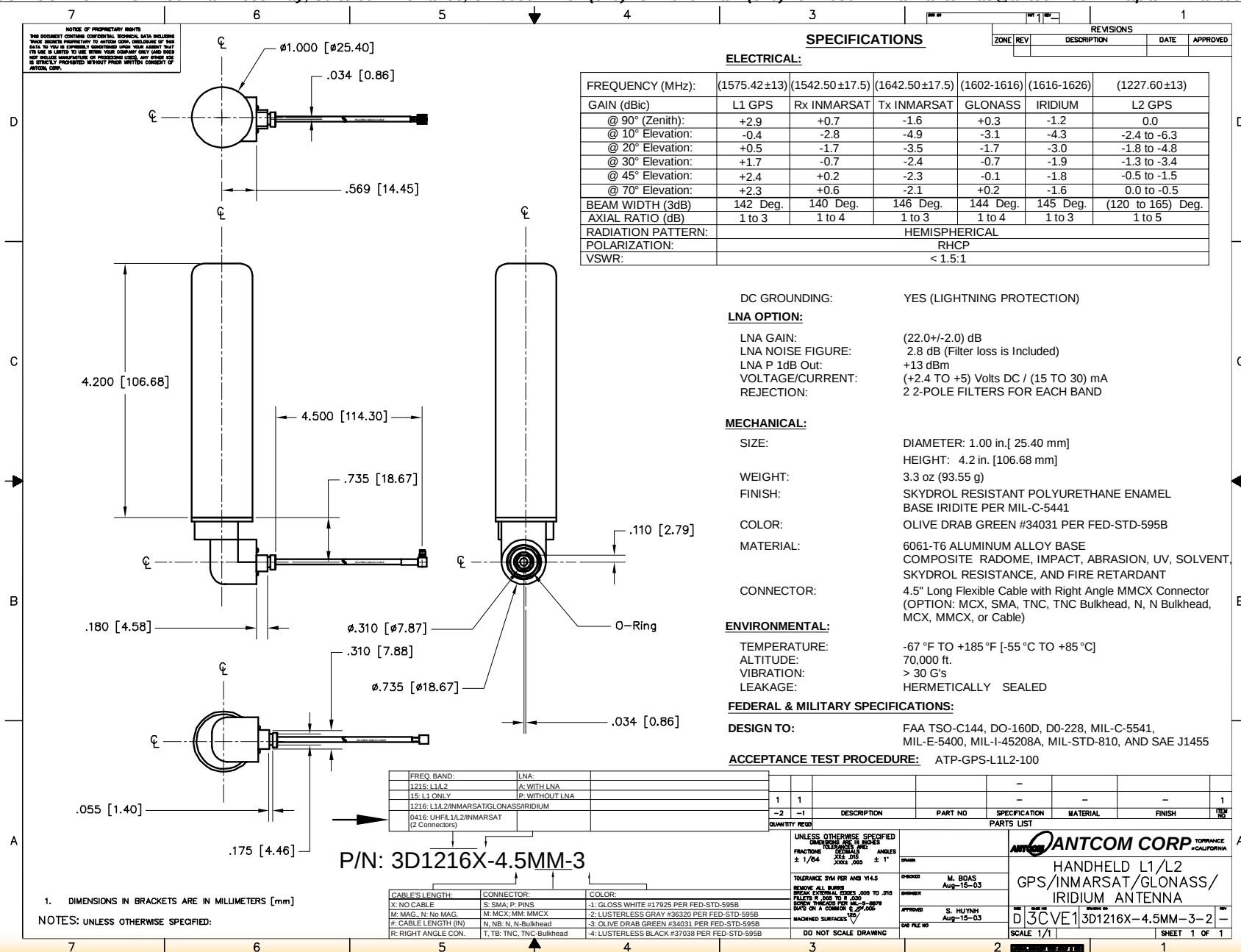




L1 or L1/L2 GPS & Inmarsat/Iridium/Glonass Antennas, P/N: 3D1216P-4.5MM-X-2: 1" Diameter x 4.2" Tall, Swivel, Side Mount (Better L2) Configurations



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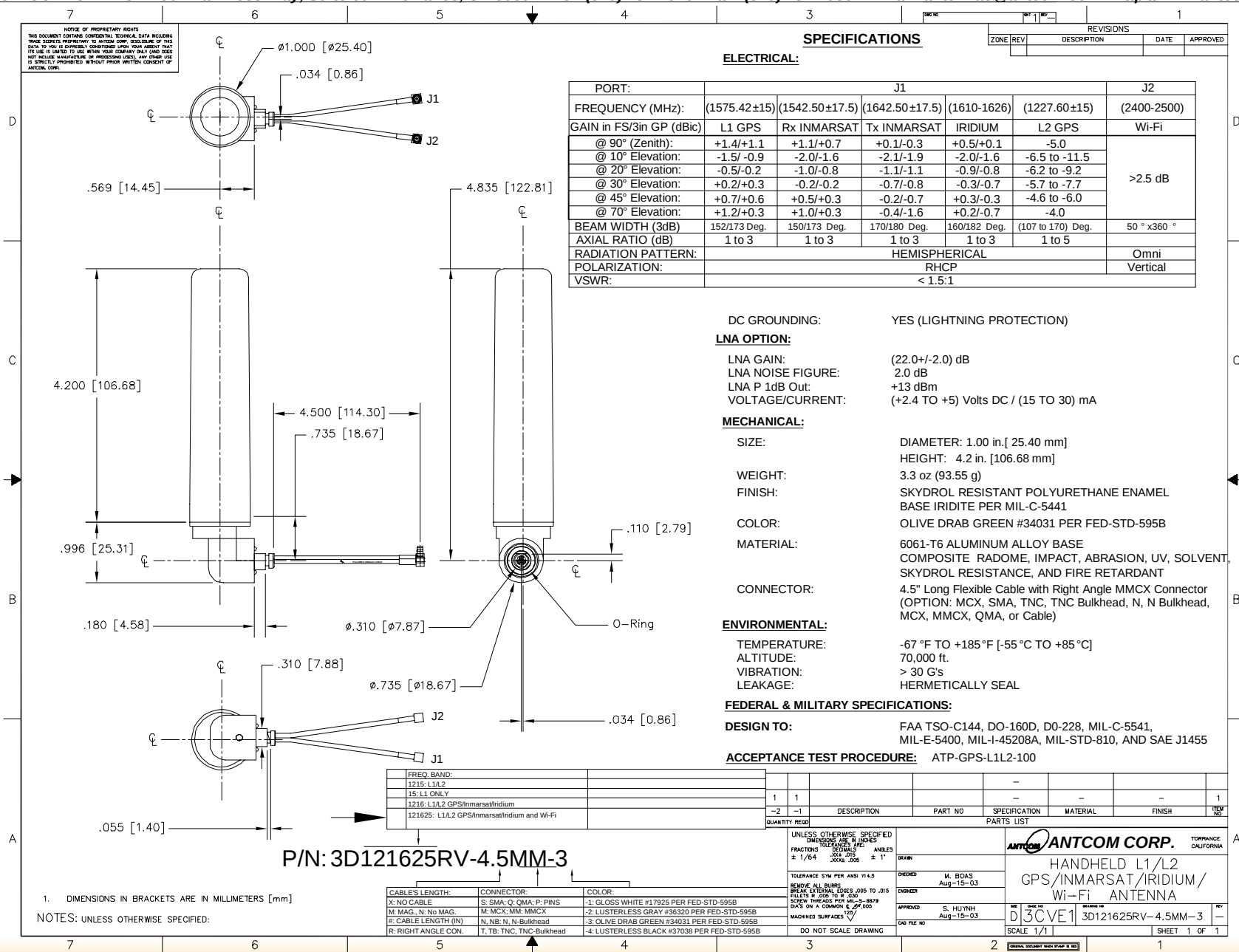


L1 or L1L2 GPS & Inmarsat/Iridium/Glonass & Wi-Fi Antennas, P/N: 3D121625RV-4.5MM-3:

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

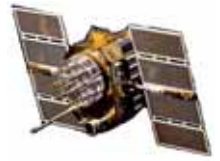


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**L1 or L1/L2 GPS & Iridium/Inmarsat/Glonass Antennas, P/N: 3D1216P-XS-X:
1" Diameter x 4.2" Tall, Swivel, Side Mount Configurations**



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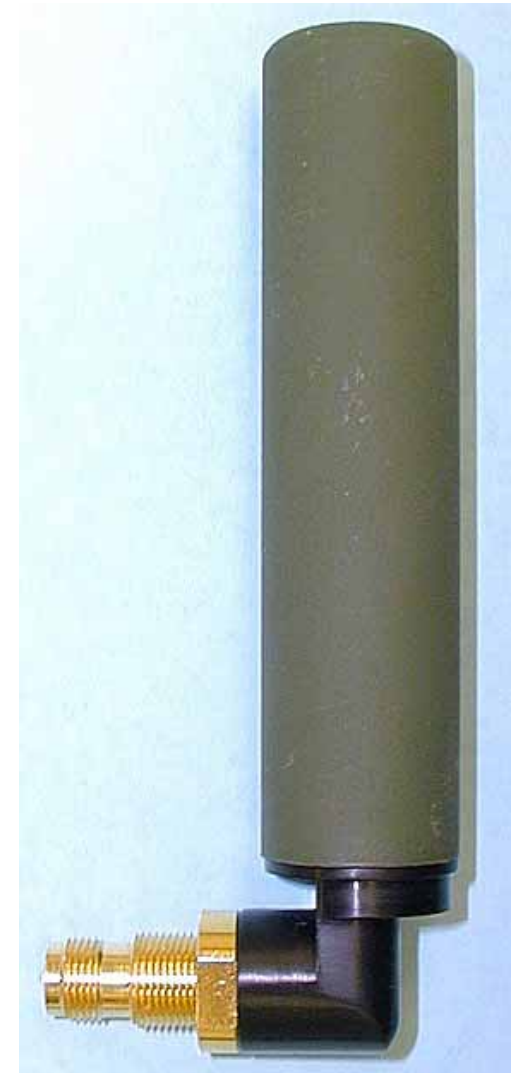
**P/N: 3D1216P-XS-4,
Black, SMA**



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



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



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

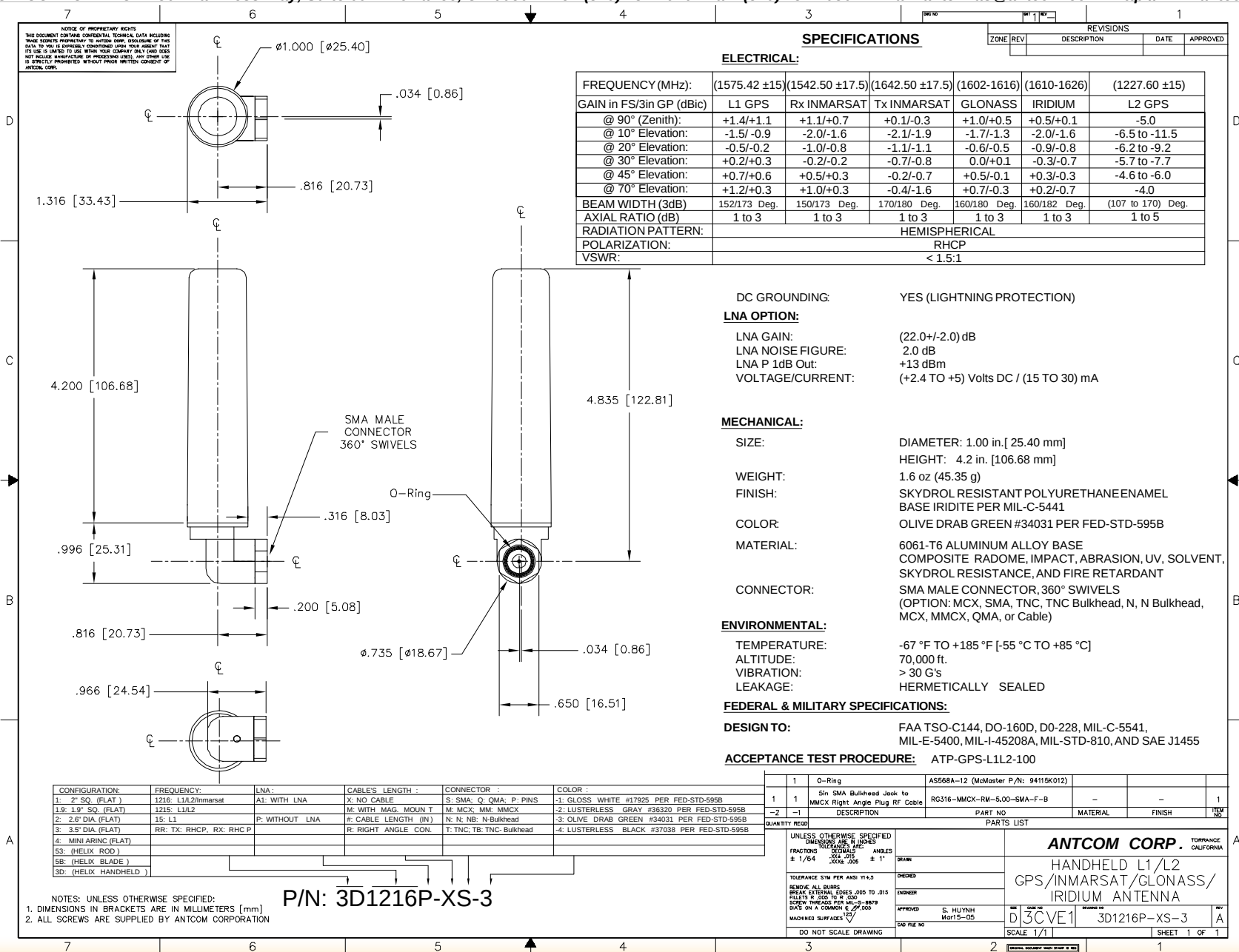


L1 or L1L2 GPS & Inmarsat/Iridium/Glonass Antennas, P/N: 3D1216P-XS-X:

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



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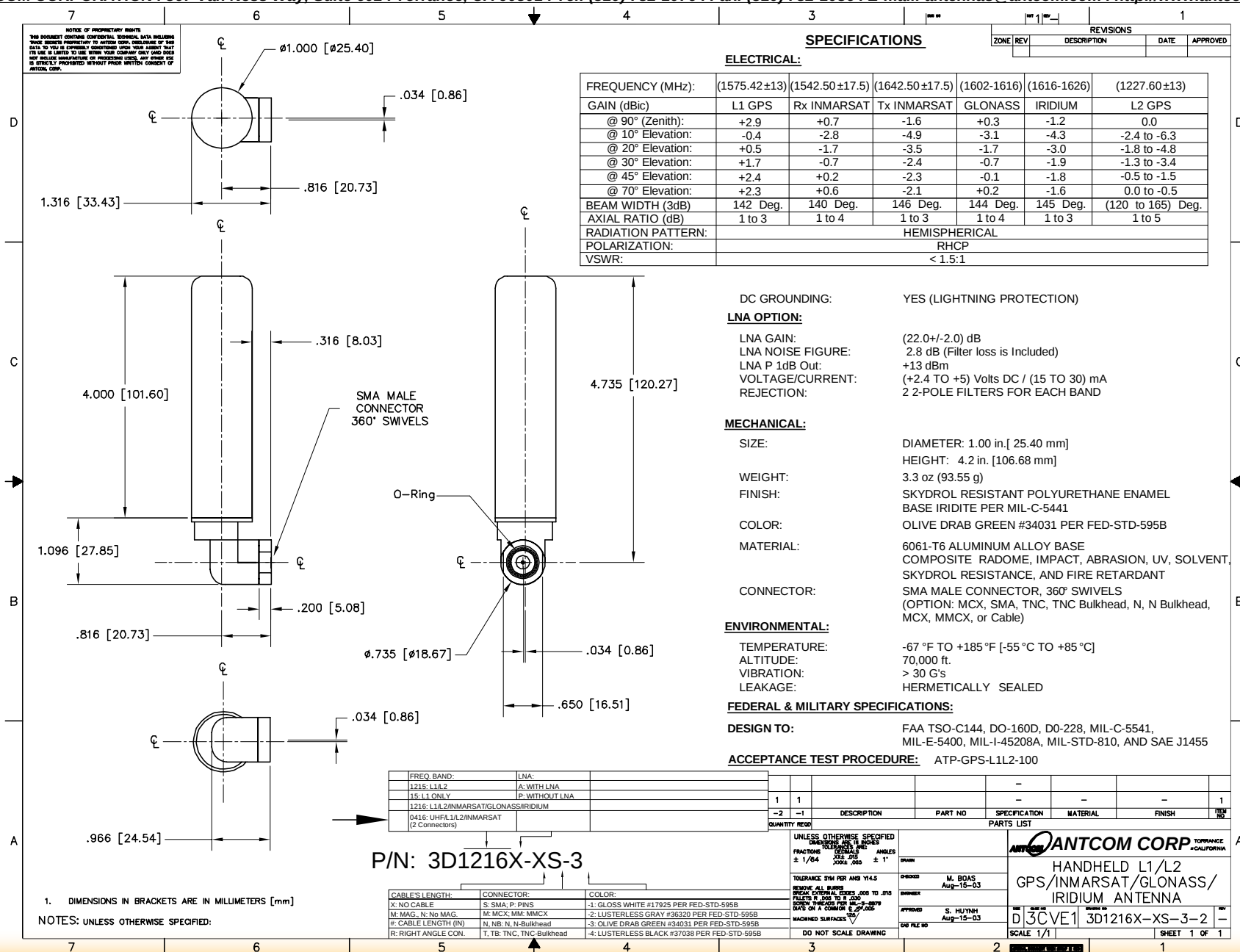


L1 or L1/L2 GPS & Iridium/Inmarsat/Glonass Antennas, P/N: 3D1216P-XS-X-2:

1" Diameter x 4.2" Tall, Swivel, Side Mount (Better L2) Configurations



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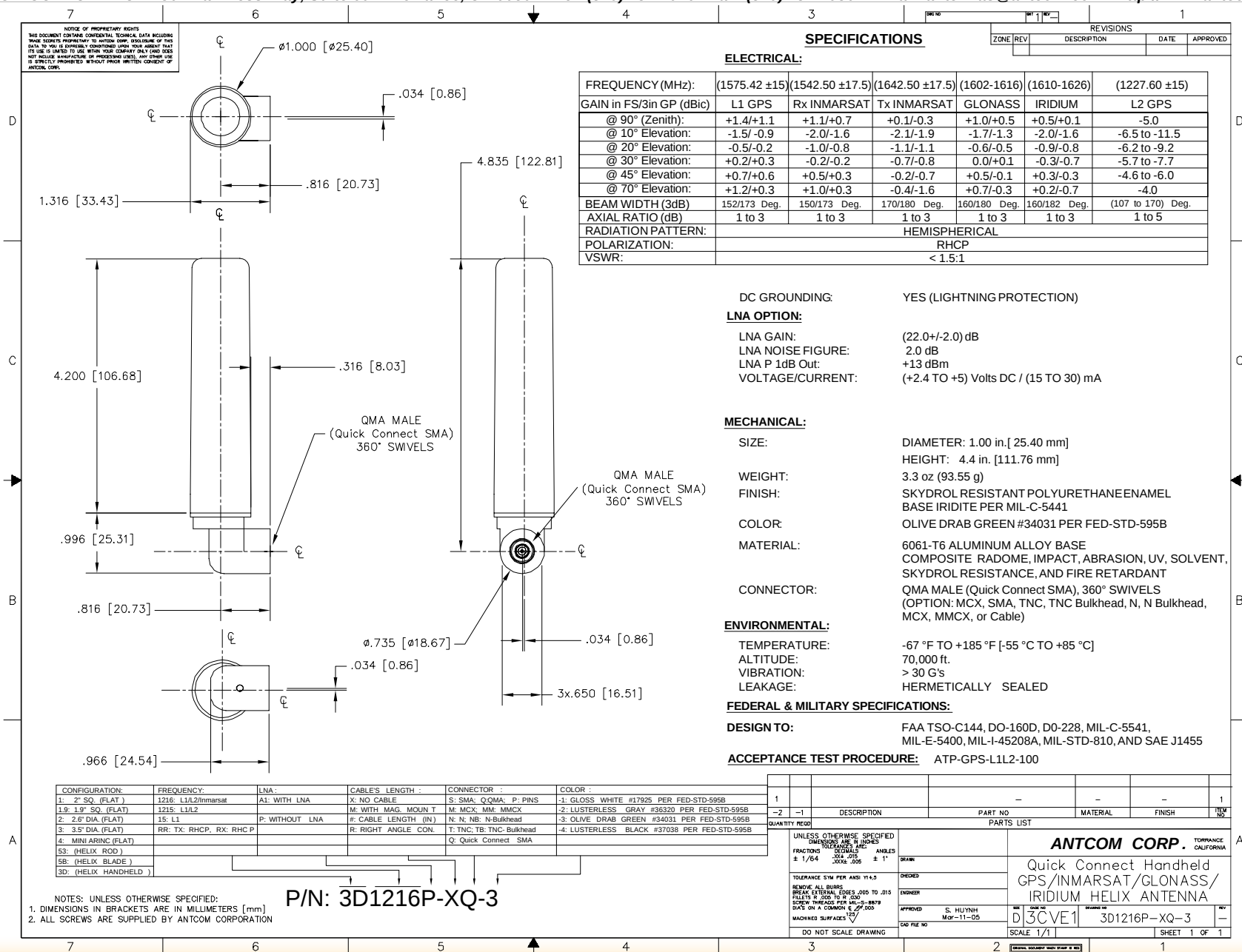




L1 or L1L2 GPS & Inmarsat/Iridium/Glonass Antennas, P/N: 3D1216P-XQ-X: 1" Diameter x 4.2" Tall, Quick Connect QMA, Swivel, Side Mount Configurations



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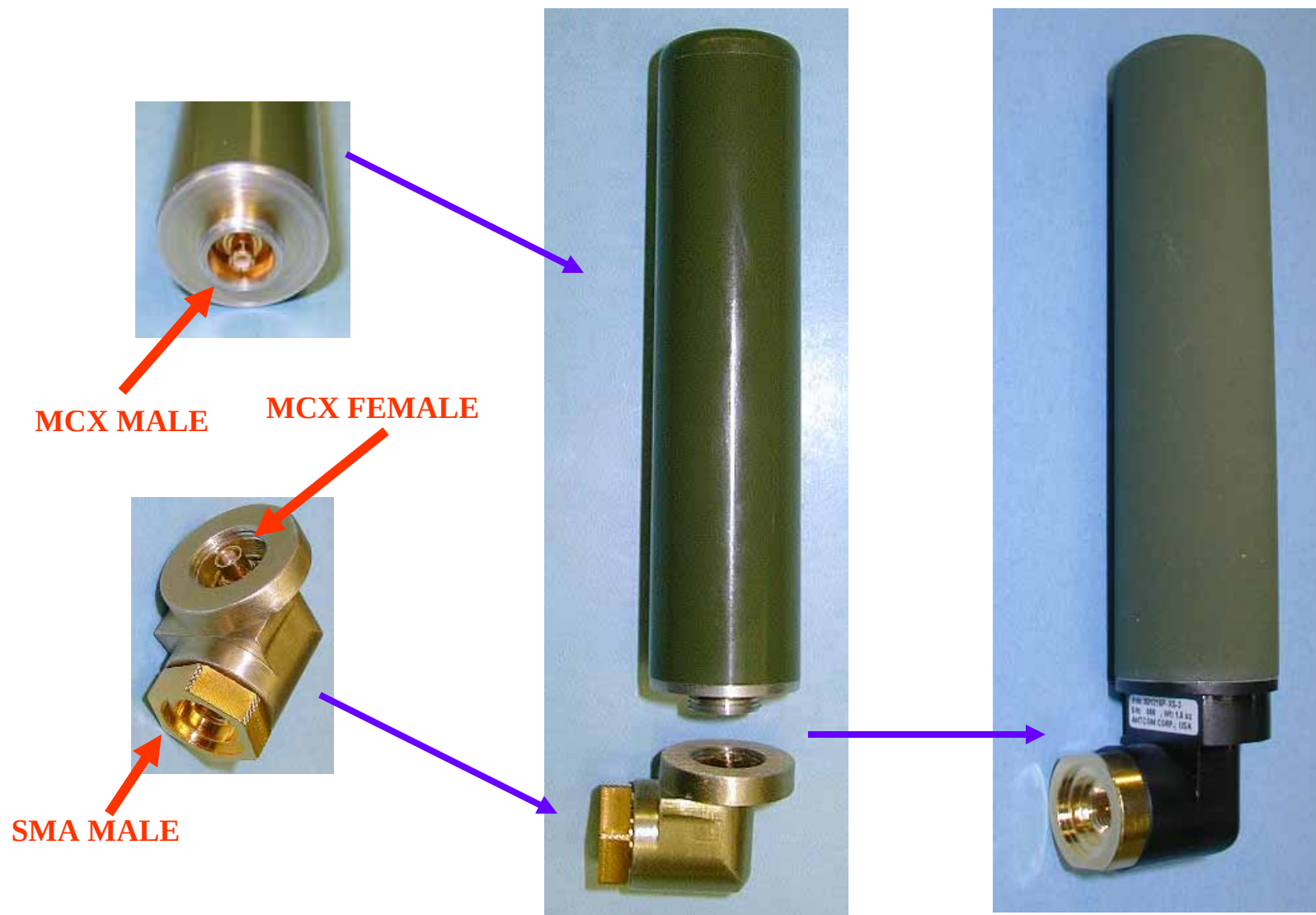




L1 or L1L2 GPS & Inmarsat/Iridium/Glonass Antennas, P/N: 3D1216P-XMS-X:
1" Diameter x 4.2" Tall, Quick Connect MCX, Swivel, Side Mount Configurations



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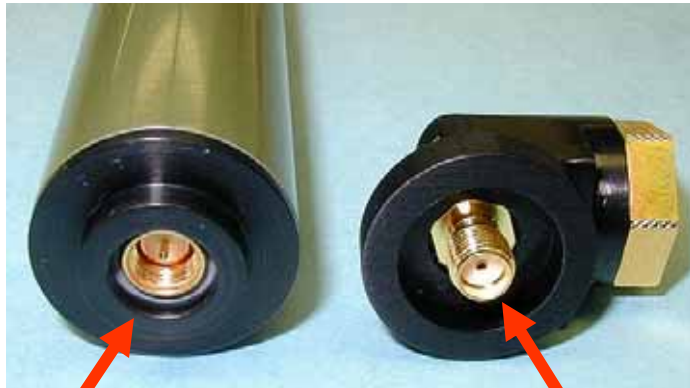




**L1 or L1L2 GPS & Inmarsat/Iridium/Glonass Antennas, P/N: 3D1216P-XSS-X:
1" Diameter x 4.2" Tall, Quick Connect SMA, Swivel, Side Mount Configurations**



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SMA MALE

SMA FEMALE

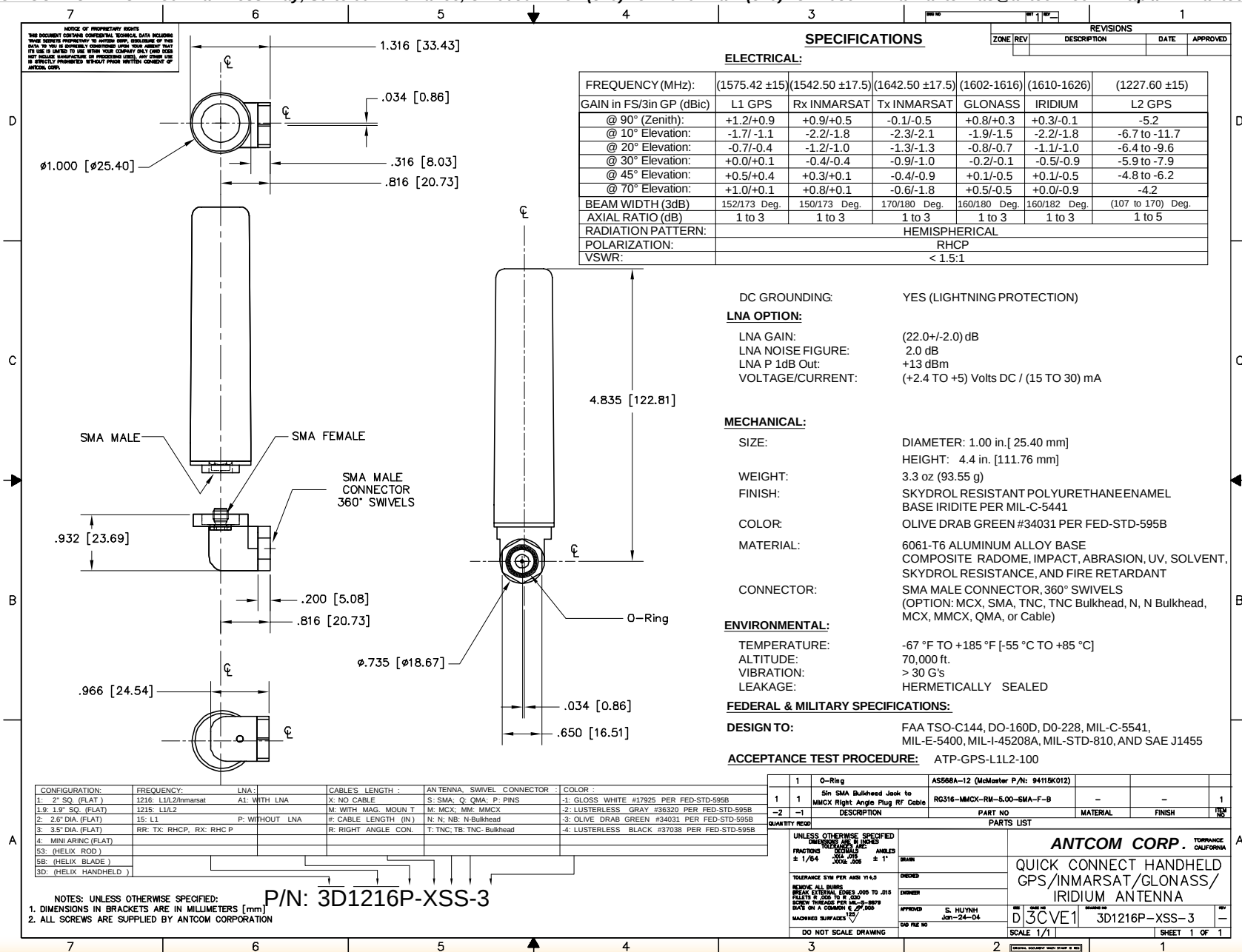




L1 or L1L2 GPS & Inmarsat/Iridium/Glonass Antennas, P/N: 3D1216P-XSS-X: 1" Diameter x 4.2" Tall, Quick Connect SMA, Swivel, Side Mount Configurations



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



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Hermetically Sealed, Designed for Harsh Environment Applications.

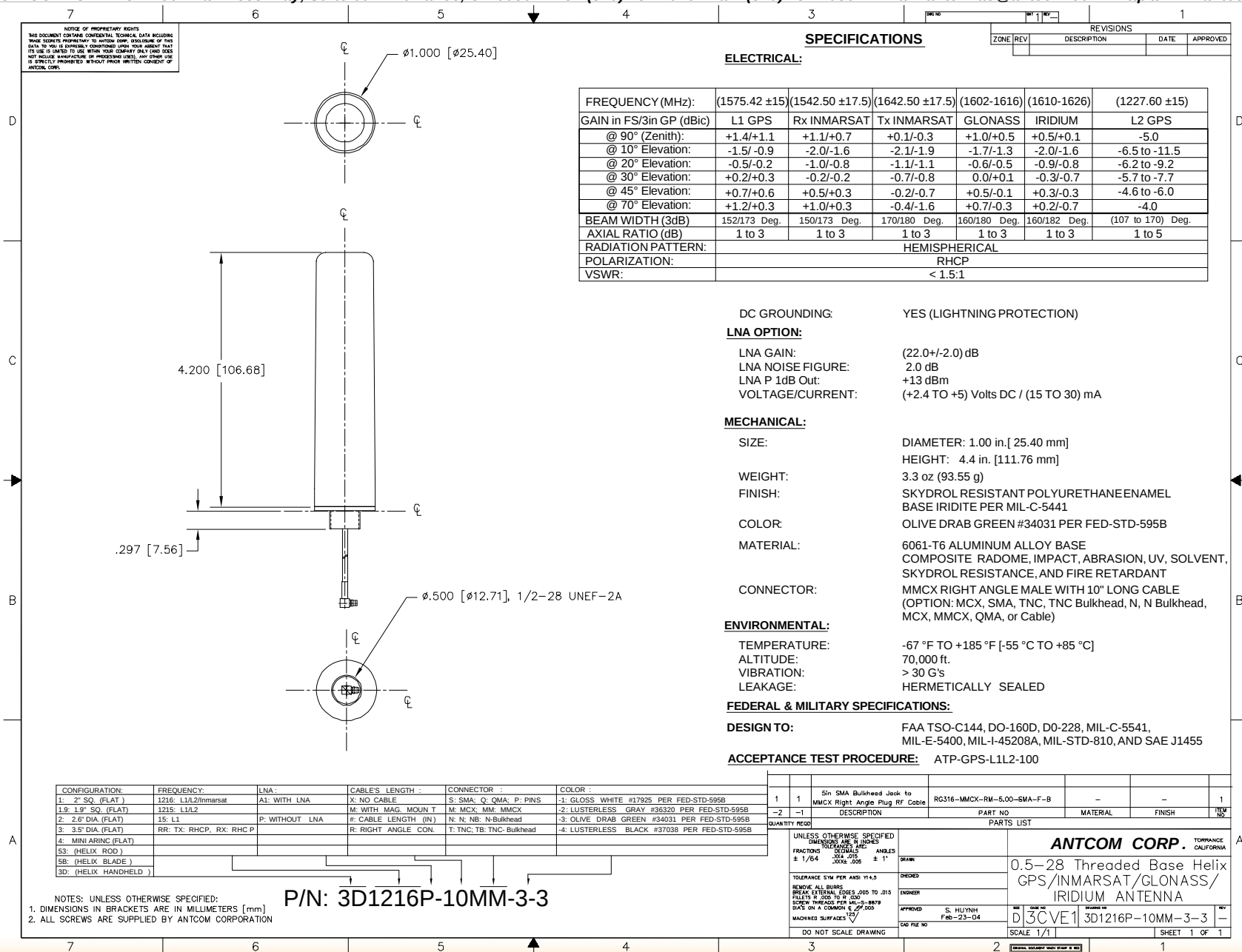
Connector is Available in SMA, MCX, MMCX, TNC, TNC-B, N, or N-Bulkhead (See Drawing)



L1 or L1L2 GPS & Inmarsat/Iridium/Glonass Antennas, P/N: 3D1216P-10MM-X: 1" Diameter x 4.2" Tall, Threaded Bottom Mount Configuration



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L1 GPS/Iridium/Tx Inmarsat Helix Antenna, 0.5" Diameter x 4.4" Tall, Threaded Bottom Mount Configuration



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Connector:
TNC-F

Connector:
SMA-F

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



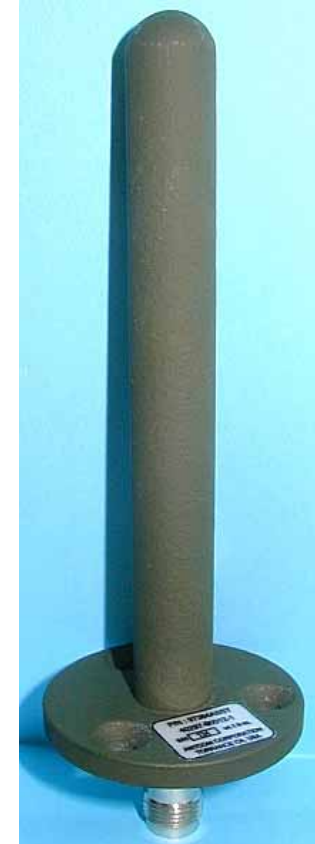
Connector:
TNC-M



Connector:
TNC-F

Connector:
SMA-F

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



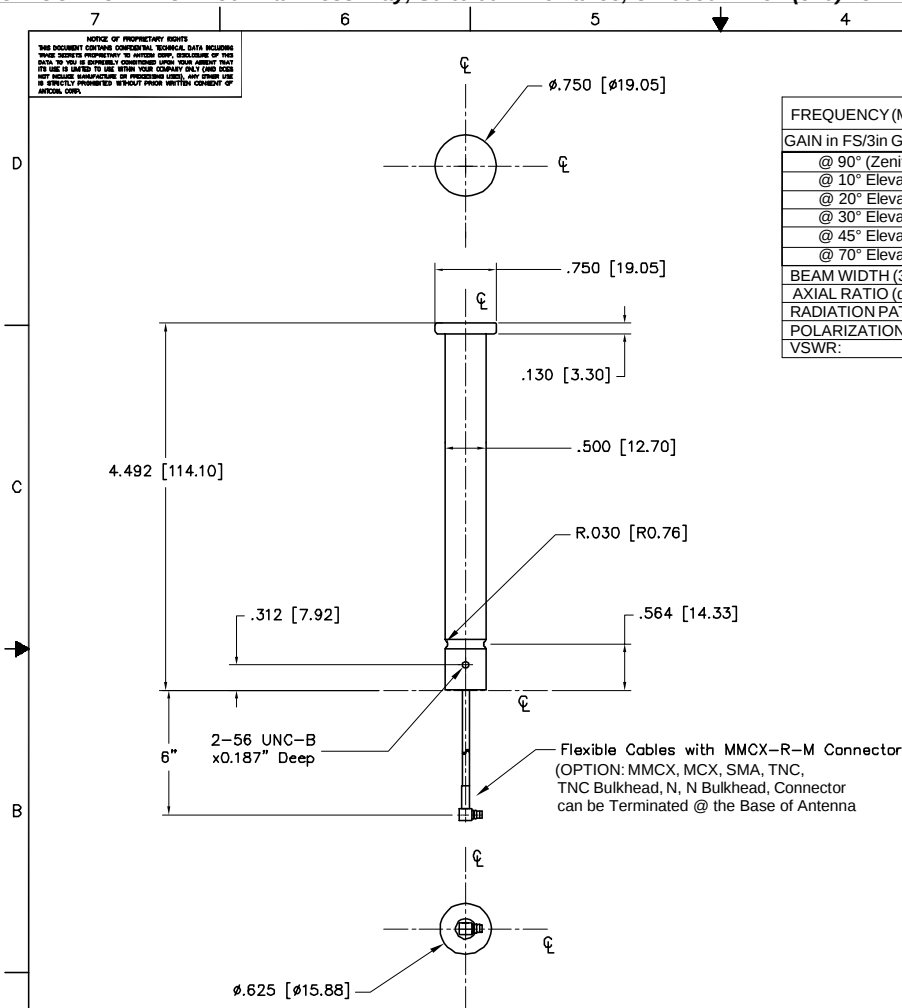
0.52R1216P-XTB-4
4.4" Tall Rod
Configurations

Hermetically Sealed,
Designed for Harsh
Environment Applications.

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



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SPECIFICATIONS

ELECTRICAL:						
FREQUENCY (MHz):	(1575.42 ±15)	(1542.50 ±17.5)	(1642.50 ±17.5)	(1602-1616)	(1610-1626)	
GAIN in FS/3in GP (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	
BEAM WIDTH (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 OPTION for 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: 0.50 in.[12.70 mm]
	HEIGHT: 3.862 in. [98.09 mm]
WEIGHT:	< 2.8 oz (79.4 g)
FINISH:	SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER 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, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

CONFIGURATION:	FREQUENCY:	LNA:	CABLE'S LENGTH:	CONNECTOR:	COLOR:
1: 2" SQ. (FLAT.)	1216: L1/L2/rmmsat	A1: WITH LNA	X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
2: 1.9" SQ. (FLAT)	1215: L1/L2		M: WITH MAG. MOUNT T	M: MCK; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
3: 2.6" DIA. (FLAT)	15: L1	P: WITHOUT LNA	F: 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: RHC P		R: RIGHT ANGLE CON.	T: TNC; TB: TNC- Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
0.5R: 0.5" Dia. Helix Rod					
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: 0.7R1216P-7MM-4

[illegible]

L-Band (1000-3000) MHz Low Noise Amplifier



- **P/N: 2G1030AMP33-XS-3MM,**
- **Size: 2"x2"x0.4"**
- **DC Input: (3 to 24)volt/30mA directly from RF Output Connector or from Separated DC input**
- **Gain: 20, 37 dB**
- **Noise Figure: 1.8 dB**
- **Connector: MMCX, MCX, SMA, TNX, N**

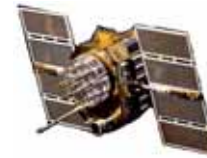
2-Way Power Divider/Combiner for Multiple Channels, (P/N: 2G1215S-XS2-1)



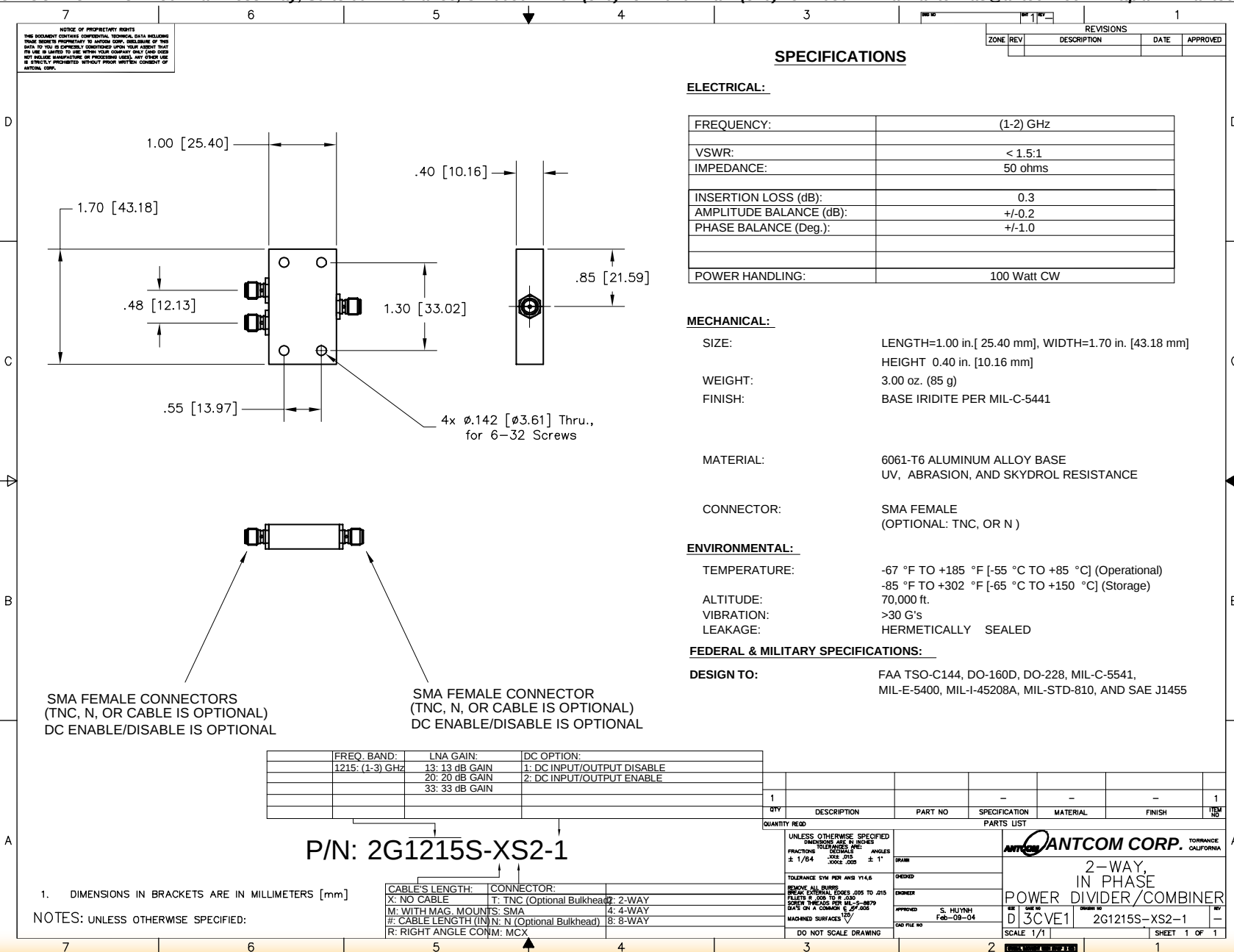
- **4 & 8-Way Power Divider/Combiner is Available**
- **Other Connector Types are Available**



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



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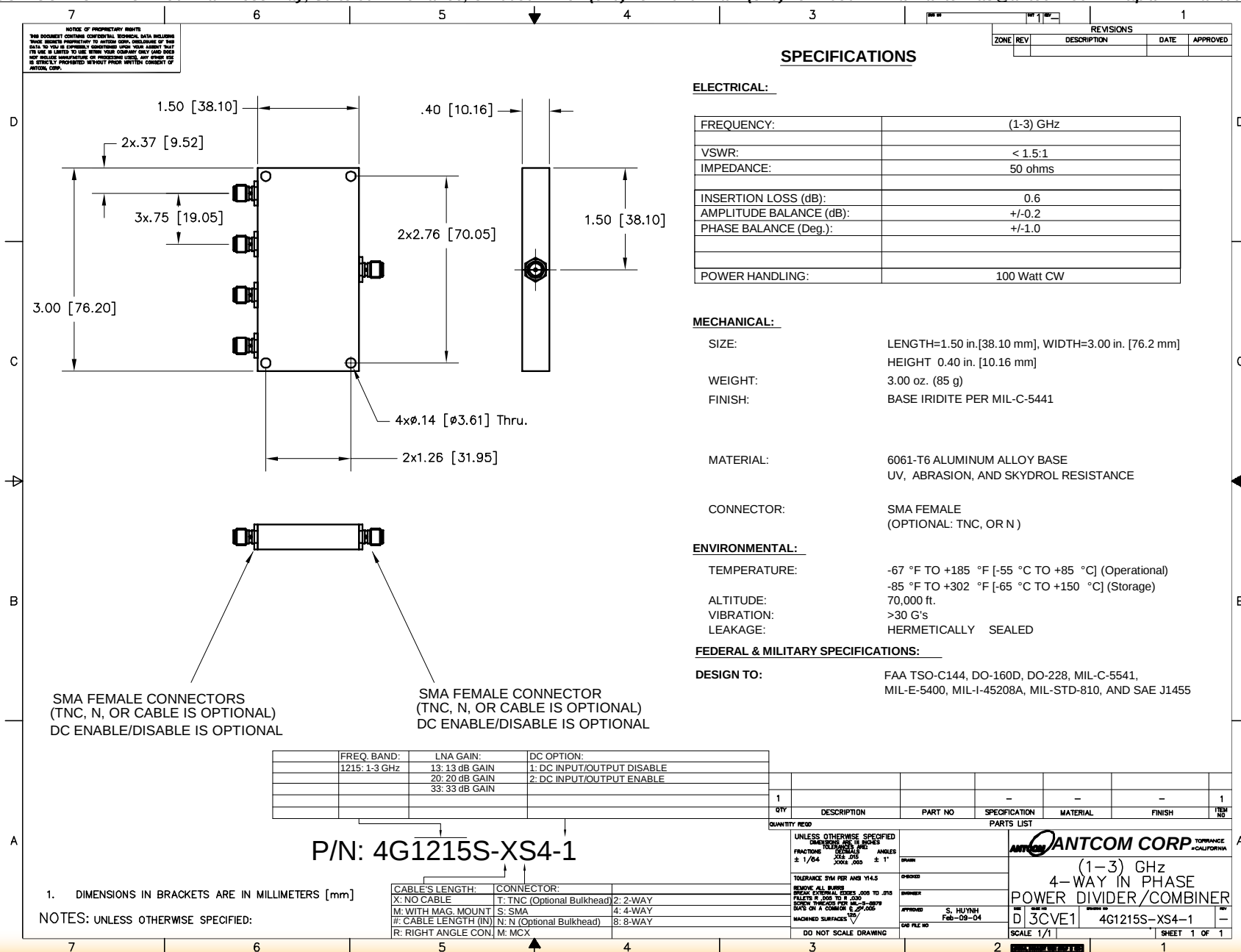




4-Way Power Divider/Combiner for Multiple Channels, (P/N: 4G1215S-XS4-1)

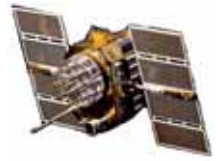


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Active (L1 or L1/L2 GPS) & (Iridium/Inmarsat or Thuraya) Antenna:
(5.03"x2.08"x0.69"), Flat or Pipe mount, P/N: S5GIR1X16RR-AP-XXX-X



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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.)



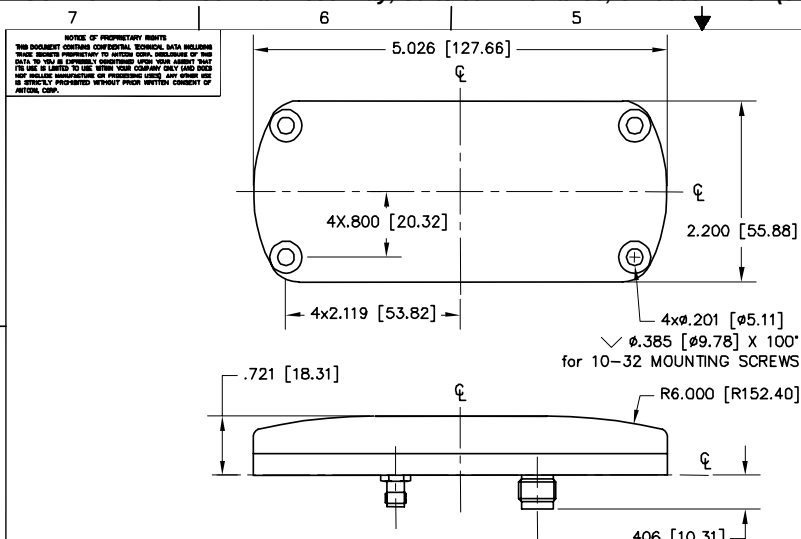
S5GIR1X16RR-AP-XST-X (SMA/TNC Con.)



Active L1 GPS & (Iridium/Inmarsat or Thuraya) Antenna: (5.03"x2.08"x0.69"), Flat or Pipe mount, P/N: S5GIR1516RR-AP-XST-X



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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. 4 ft G.P.
@ 90° (Zenith):	+4.9	+5.0
@ 10° Elevation:	-1.0	-2.5
@ 20° Elevation:	+1.5	-0.5
@ 30° Elevation:	+2.4	+1.0
@ 60° to 90° Elevation:	>+3.3	>+2.7
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. @1616MHz):		> 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: 8.5 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, IRIDIUM: 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: 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	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	-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 #37030 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

QUANTITY	DESCRIPTION	PART NO	MATERIAL	FINISH	REV
4	MOUNTING SCREW: (10-32, 1")	MS24693C278	-	-	5
1	O-RING	2-038-N756-75	-	-	3
1	O-RING	2-038-N756-75	-	-	1

UNLESS OTHERWISE SPECIFIED	ANTCOM CORP.
ALL DIMENSIONS ARE IN INCHES	FLAT FIXED MOUNT
FRACTIONS 1/16, 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/4, 2 1/2, 2 3/4, 3, 3 1/4, 3 1/2, 3 3/4, 4, 4 1/4, 4 1/2, 4 3/4, 5, 5 1/4, 5 1/2, 5 3/4, 6, 6 1/4, 6 1/2, 6 3/4, 7, 7 1/4, 7 1/2, 7 3/4, 8, 8 1/4, 8 1/2, 8 3/4, 9, 9 1/4, 9 1/2, 9 3/4, 10	ACTIVE IRIDIUM/GPS
TOLERANCE .015 PER ANSI Y14.5	ANTENNA
REMOVE ALL BURRS	
BEFORE FINAL INSPECTION TO .015	
ALL DIMENSIONS ARE IN INCHES	
FRACTIONS 1/16, 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/4, 2 1/2, 2 3/4, 3, 3 1/4, 3 1/2, 3 3/4, 4, 4 1/4, 4 1/2, 4 3/4, 5, 5 1/4, 5 1/2, 5 3/4, 6, 6 1/4, 6 1/2, 6 3/4, 7, 7 1/4, 7 1/2, 7 3/4, 8, 8 1/4, 8 1/2, 8 3/4, 9, 9 1/4, 9 1/2, 9 3/4, 10	
DO NOT SCALE DRAWING	

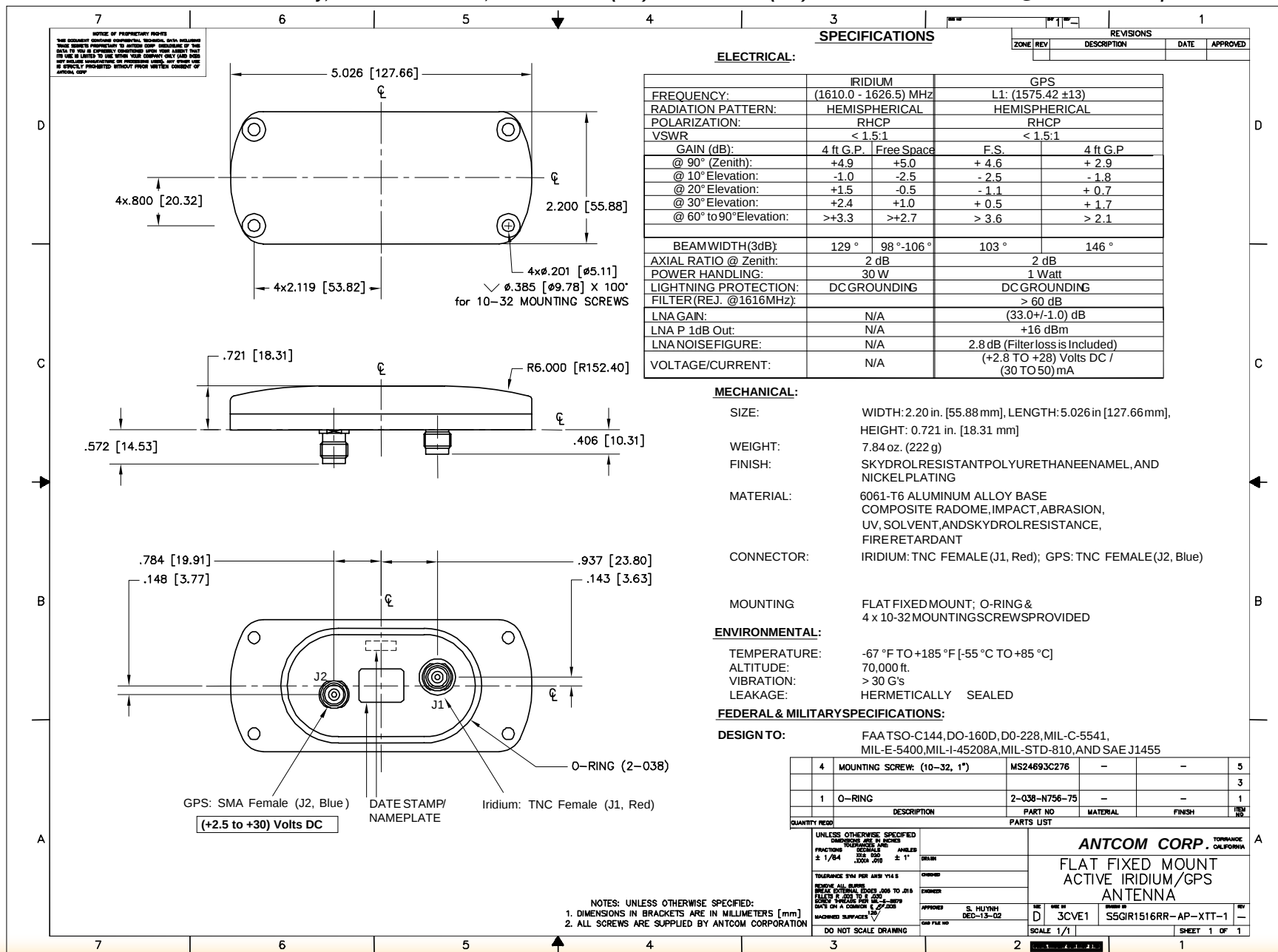
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SCALE	1/1		
SHEET	1	OF 1	



Active L1 GPS & (Iridium/Inmarsat or Thuraya) Antenna: (5.03"x2.08"x0.69"), Flat or Pipe mount, P/N: S5GIR1516RR-AP-XTT-X

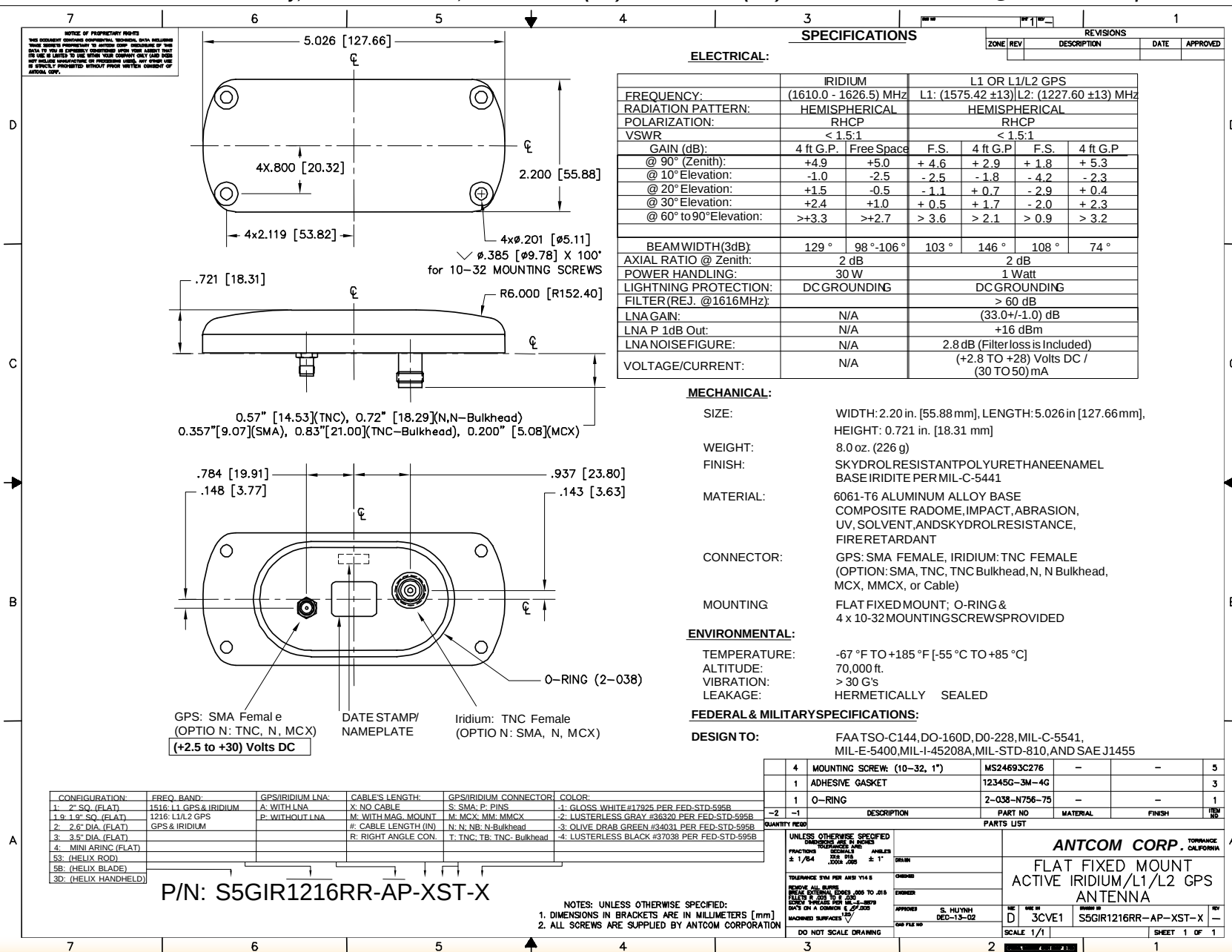


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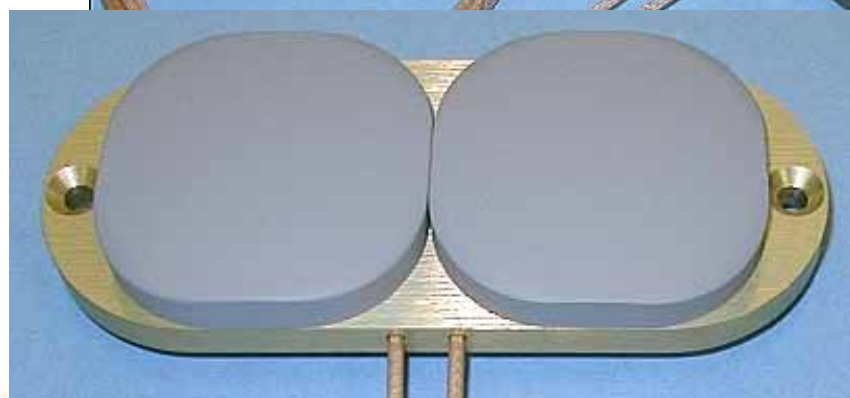
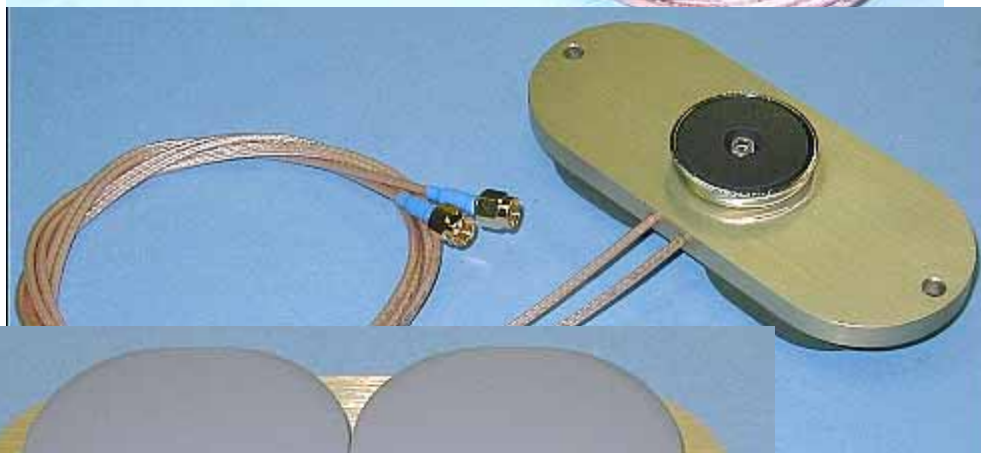


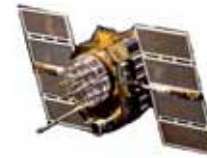


Active GPS & (Iridium/Inmarsat or Thuraya) Antenna:
(5.03"x2.08"x0.69"), Magnetic Mount, Cable, P/N: S5GIR1516RR-AP-XMST-X

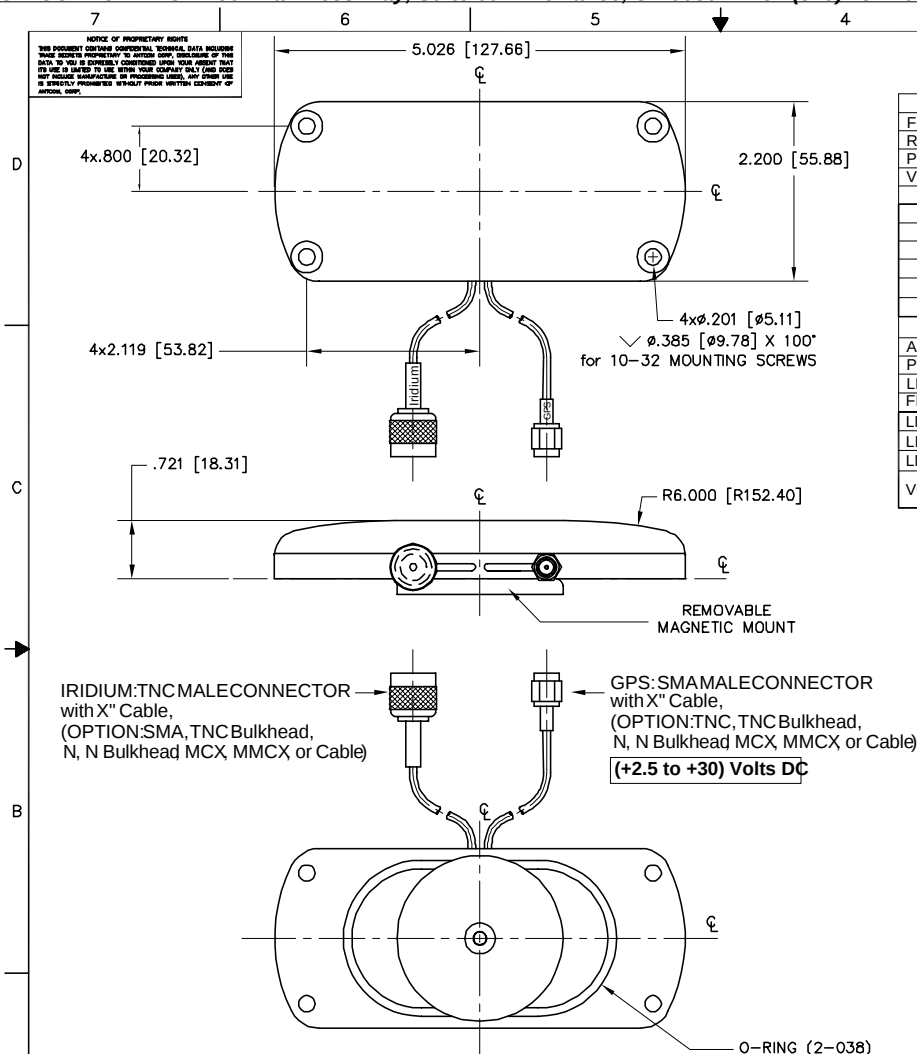


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CONFIGURATION:	FREQ. BAND :	GPS/IRIDIUM LNA :	CABLE'S LENGTH/MAG:	GPS/IRIDIUM CONNECTOR:	COLOR :
1: 2" SQ. (FLAT)	1516: L1 GPS & IRIDIUM	A: WITH LNA	X: CABLE LENGTH (N)	S: SMA: P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.9: 1.9" SQ. (FLAT)	1216: L1/L2 GPS	P: WITHOUT LNA	M: WITH MAGNET	M: MMCX: MM: MMCX	-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 ARINC (FLAT)					
53: (HELIX ROD)					
58: (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

	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

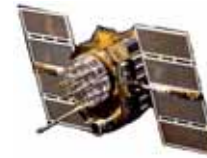
ENVIRONMENTAL:

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

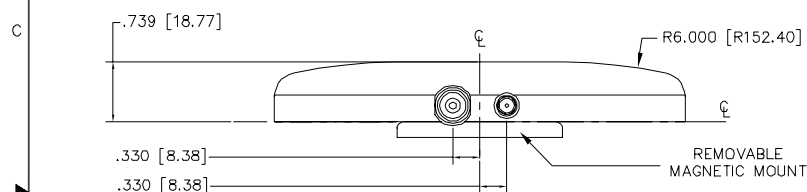
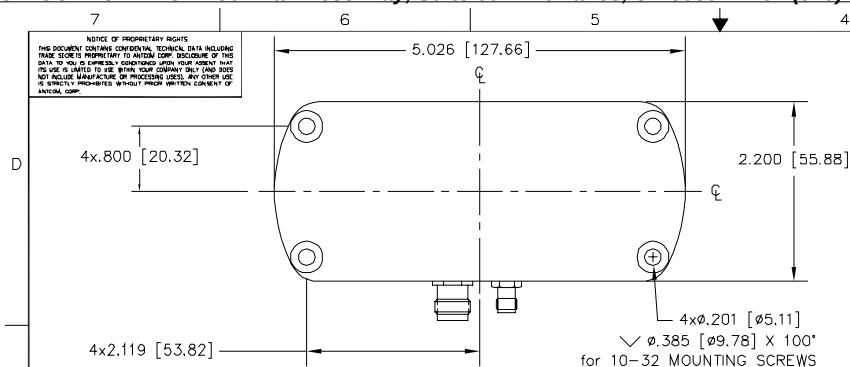
FEDERAL & MILITARY SPECIFICATIONS:

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

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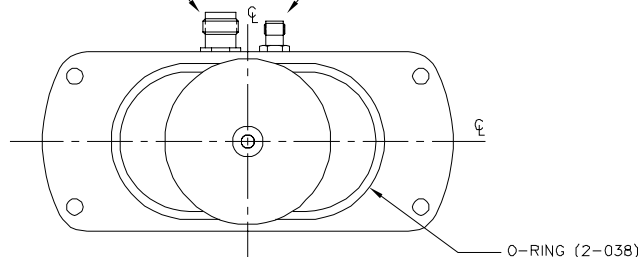


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IRIDIUM:TNCMALECONNECTOR
(OPTION:SMA,TNCBulkhead,
N,N Bulkhead MCX, MMCX, or Cable)

GPS: SMAMALECONNECTOR
(OPTION: TNC, TNC Bulkhead,
N, N Bulkhead MCX, MMCX, or Cable)
(+2.5 to +30) Volts DC



CONFIGURATION:	FREQ. BAND :	GPS/IRIDIUM LNA	CABLE'S LENGTH/MAG.	GPS/IRIDIUM CONNECTOR:	COLOR :
1: 2" SO. (FLAT)	1516: L1 GPS & IRIDIUM	A: WITH LNA		S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.9: 1.9" SO. (FLAT)	1216: L1/L2 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 M		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 ARINC (FLAT)					
53: (HELIX ROD)					
58: (HELIX BLADE)					
30: (HELIX HANDHELD)					

P/N: S5GIR1216RR-AP-MST-X

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

SPECIFICATIONS

	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: 0.739 in. [18.77 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, IRIDIUM: 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	—	—	5
	1					1
	1	O-RING	2-038-N756-75	—	—	1
-2	-1	DESCRIPTION	PART NO	MATERIAL	FINISH	QTY
QUANTITY	REF ID		PARTS LIST			

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS SHALL BE IN 16ths ± 1/64 XXX XXX ± 1"		ANTCOM CORP. TORRANCE, CALIFORNIA	
QUANTITY 514 PER ANGLES REMAIN ALL BURR REMOVE ALL PARTIAL THREADS, 10 TO 210 FINISH .002 IN. RIPS 1/2" 1/4" 3/8" 1/2" 5/8" 3/4" 7/8" 1" 1 1/8" 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" 10 1/2" 11" 11 1/2" 12" 12 1/2" 13" 13 1/2" 14" 14 1/2" 15" 15 1/2" 16" 16 1/2" 17" 17 1/2" 18" 18 1/2" 19" 19 1/2" 20" 20 1/2" 21" 21 1/2" 22" 22 1/2" 23" 23 1/2" 24" 24 1/2" 25" 25 1/2" 26" 26 1/2" 27" 27 1/2" 28" 28 1/2" 29" 29 1/2" 30" 30 1/2" 31" 31 1/2" 32" 32 1/2" 33" 33 1/2" 34" 34 1/2" 35" 35 1/2" 36" 36 1/2" 37" 37 1/2" 38" 38 1/2" 39" 39 1/2" 40" 40 1/2" 41" 41 1/2" 42" 42 1/2" 43" 43 1/2" 44" 44 1/2" 45" 45 1/2" 46" 46 1/2" 47" 47 1/2" 48" 48 1/2" 49" 49 1/2" 50" 50 1/2" 51" 51 1/2" 52" 52 1/2" 53" 53 1/2" 54" 54 1/2" 55" 55 1/2" 56" 56 1/2" 57" 57 1/2" 58" 58 1/2" 59" 59 1/2" 60" 60 1/2" 61" 61 1/2" 62" 62 1/2" 63" 63 1/2" 64" 64 1/2" 65" 65 1/2" 66" 66 1/2" 67" 67 1/2" 68" 68 1/2" 69" 69 1/2" 70" 70 1/2" 71" 71 1/2" 72" 72 1/2" 73" 73 1/2" 74" 74 1/2" 75" 75 1/2" 76" 76 1/2" 77" 77 1/2" 78" 78 1/2" 79" 79 1/2" 80" 80 1/2" 81" 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726" 726 1/2" 727" 727 1/2" 728" 728 1/2" 729" 729 1/2" 730" 730 1/2" 731" 731 1/2" 732" 732 1/2" 733" 733 1/2" 734" 734 1/2" 735" 735 1/2" 736" 736 1/2" 737" 737 1/2" 738" 738 1/2" 739" 739 1/2" 740" 740 1/2" 741" 741 1/2" 742" 742 1/2" 743" 743 1/2" 744" 744 1/2" 745" 745 1/2" 746" 746 1/2" 747" 747 1/2" 748" 748 1/2" 749" 749 1/2" 750" 750 1/2" 751" 751 1/2" 752" 752 1/2" 753" 753 1/2" 754" 754 1/2" 755" 755 1/2" 756" 756 1/2" 757" 757 1/2" 758" 758 1/2" 759" 759 1/2" 760" 760 1/2" 761" 761 1/2" 762" 762 1/2" 763" 763 1/2" 764" 764 1/2" 765" 765 1/2" 766" 766 1/2" 767" 767 1/2" 768" 768 1/2" 769" 769 1/2" 770" 770 1/2" 771" 771 1/2" 772" 772 1/2" 773" 773 1/2" 774" 774 1/2" 775" 775 1/2" 776" 776 1/2" 777" 777 1/2" 778" 778 1/2" 779" 779 1/2" 780" 780 1/2" 781" 781 1/2" 782" 782 1/2" 783" 783 1/2" 784" 784 1/2" 785" 785 1/2" 786" 786 1/2" 787" 787 1/2" 788" 788 1/2" 789" 789 1/2" 790" 790 1/2" 791" 791 1/2" 792" 792 1/2" 793" 793 1/2" 794" 794 1/2" 795" 795 1/2" 796" 796 1/2" 797" 797 1/2" 798" 798 1/2" 799" 799 1/2" 800" 800 1/2" 801" 801 1/2" 802" 802 1/2" 803" 803 1/2" 804" 804 1/2" 805" 805 1/2" 806" 806 1/2" 807" 807 1/2" 808" 808 1/2" 809" 809 1/2" 810" 810 1/2" 811" 811 1/2" 812" 812 1/2" 813" 813 1/2" 814" 814 1/2" 815" 815 1/2" 816" 816 1/2" 817" 817 1/2" 818" 818 1/2" 819" 819 1/2" 820" 820 1/2" 821" 821 1/2" 822" 822 1/2" 823" 823 1/2" 824" 824 1/2" 825" 825 1/2" 826" 826 1/2" 827" 827 1/2" 828" 828 1/2" 829" 829 1/2" 830" 830 1/2" 831" 831 1/2" 832" 832 1/2" 833" 833 1/2" 834" 834 1/2" 835" 835 1/2" 836" 836 1/2" 837" 837 1/2" 838" 838 1/2" 839" 839 1/2" 840" 840 1/2" 841" 841 1/2" 842" 842 1/2" 843" 843 1/2" 844" 844 1/2" 845" 845 1/2" 846" 846 1/2" 847" 847 1/2" 848" 848 1/2" 849" 849 1/2" 850" 850 1/2" 851" 851 1/2" 852" 852 1/2" 853" 853 1/2" 854" 854 1/2" 855" 855 1/2" 856" 856 1/2" 857" 857 1/2" 858" 858 1/2" 859" 859 1/2" 860" 860 1/2" 861" 861 1/2" 862" 862 1/2" 863" 863 1/2" 864" 864 1/2" 865" 865 1/2" 866" 866 1/2" 867" 867 1/2" 868" 868 1/2" 869" 869 1/2" 870" 870 1/2" 871" 871 1/2" 872" 872 1/2" 873" 873 1/2" 874" 874 1/2" 875" 875 1/2" 876" 876 1/2" 877" 877 1/2" 878" 878 1/2" 879" 879 1/2" 880" 880 1/2" 881" 881 1/2" 882" 882 1/2" 883" 883 1/2" 884" 884 1/2" 885" 885			



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



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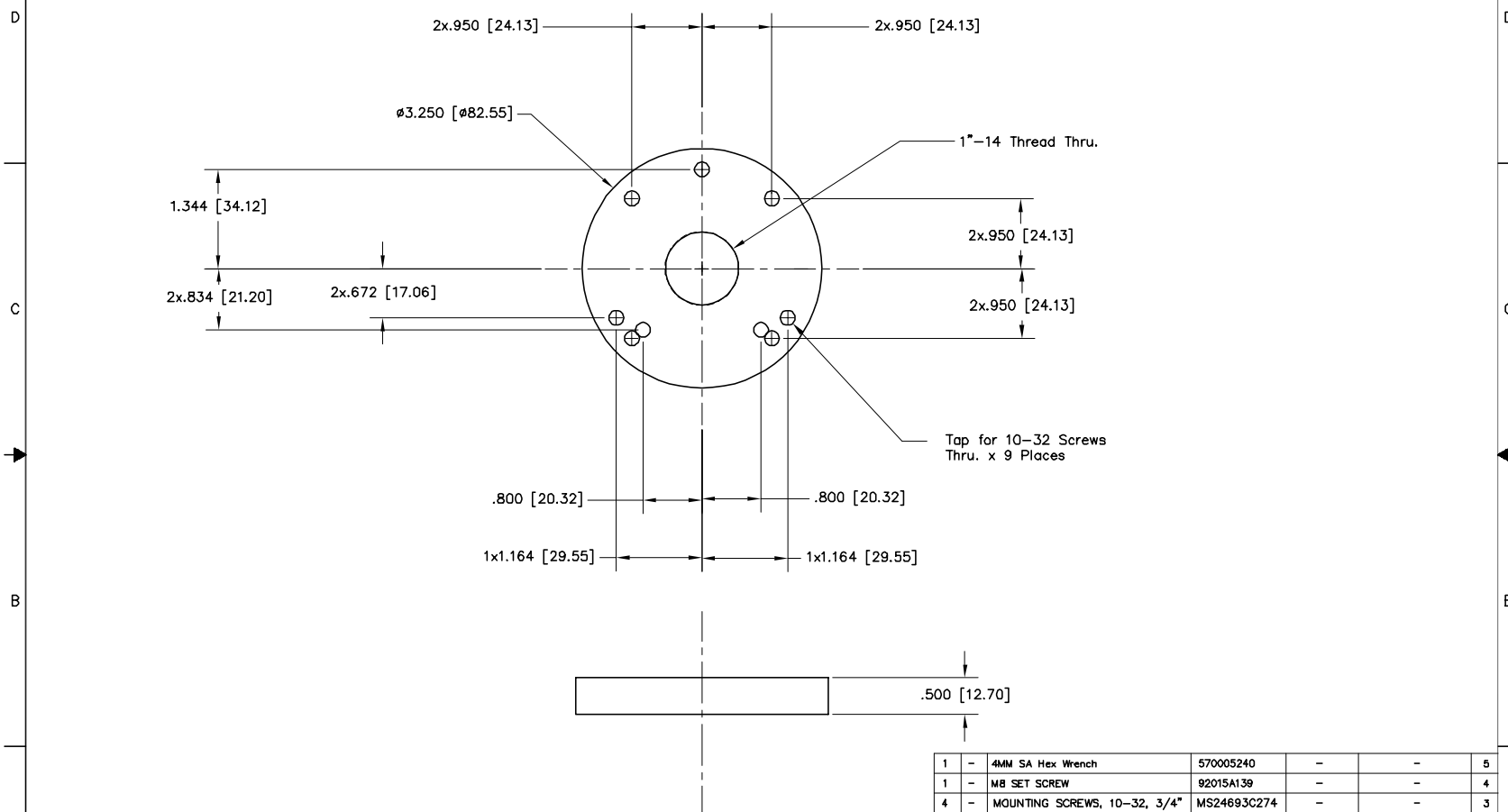


P/N: MTR-1-14,
3.25" Dia. x 0.5" Thick,
for 1"-14 Threaded Pipe



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ANTECH CORP.

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROV
	D	MOUNTING HOLE/ BIGGER PIPE	Feb-23-04	S.H



1	-	4MM SA Hex Wrench	570005240	-	-	
1	-	M8 SET SCREW	92015A139	-	-	
4	-	MOUNTING SCREWS, 10-32, 3/4"	MS24693C274	-	-	
1						
1	-	ANTENNA MOUNT	MTR-1	6061-T6 AL ALLOY	Black Anodize MIL-C-2841 CLASS 3	
		DESCRIPTION	PART NO	MATERIAL	FINISH	

2. MOUNTING SCREWS AND WRENCH ARE SUPPLIED BY ANTCOM CORPORATION

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
± 1/64 .004 .005 ± 1°
TOLERANCE 5YM PER ANSI Y14.5
REMOVE ALL BURRS
BREAK EXTERNAL EDGES .005 TO .015
RITS .005 TO .030
SCREW THREADS PER MIL-C-8879
DIA'S ON A COMMON .00005
MACHINED SURFACES 125
DO NOT SCALE DRAWING

ANTCOM CORP.

1-14 THREAD VERTICAL
ANTENNA MOUNT

SIZE	CHISEL NO	BRAND NO
D	3CWE1	MTR-1-14

SCALE	1/1	SHEET	1 OF 1
-------	-----	-------	--------



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

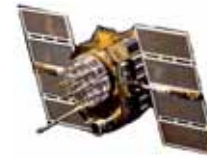


P/N: MTR-1-1,
3.25" Dia. x 1.175" High
for 1" Dia. Pipe

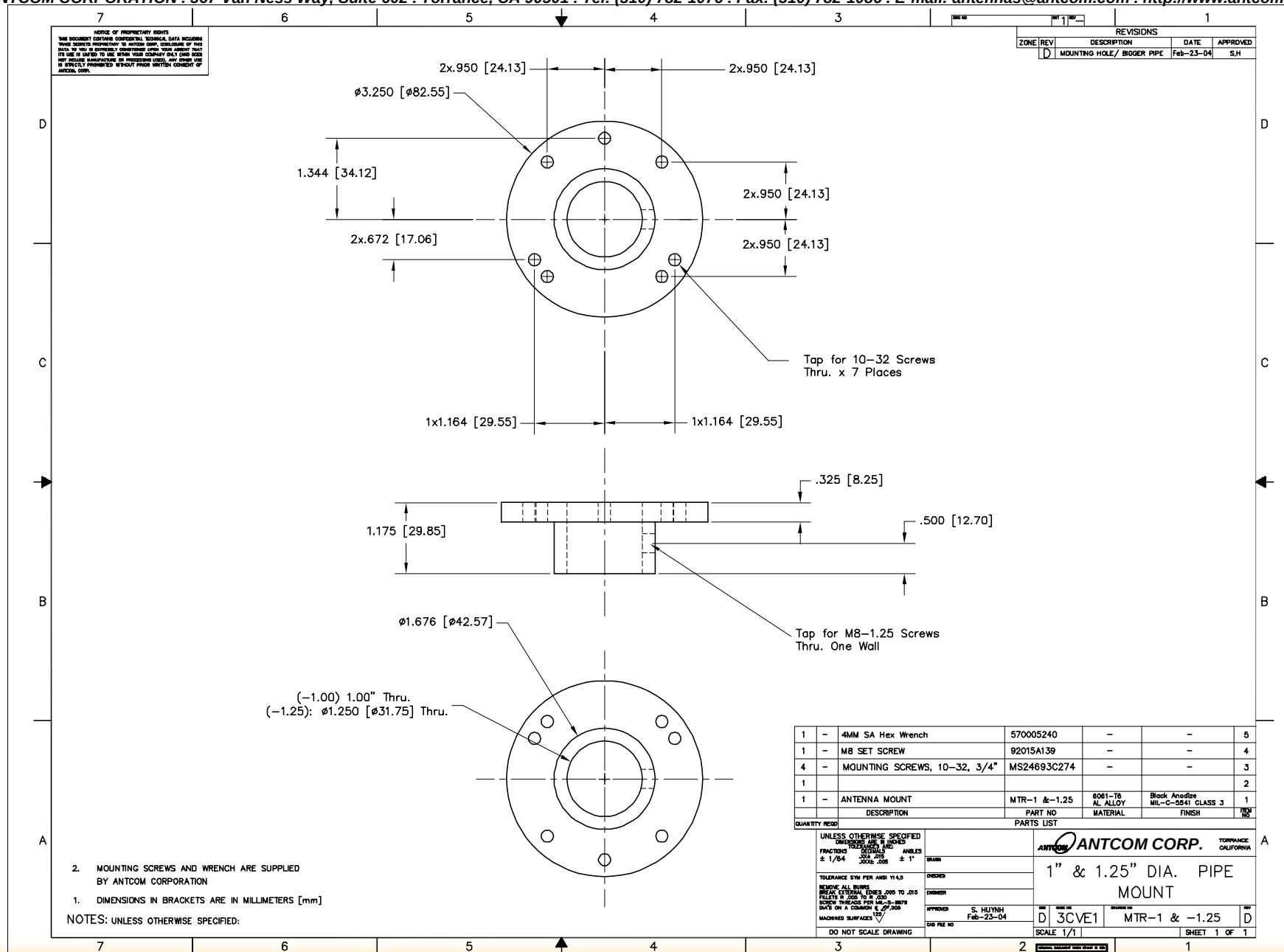




Pipe Mount, P/N: MTR-1-1 and MTR-1.1.25 for 3G, 53G, 73G, S3IR, S53 Antenna Series



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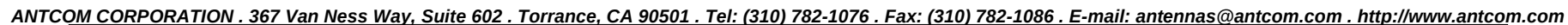
Pipe Mount, P/N: MTR-2 (for Both Vertical/Horizontal Pipe)
for 3G, 4G, 5G, 53G, 73G, S3IR , S4IR, S53, S5G Antenna Series



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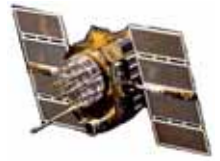


3.5" Dia. x 3.695" High

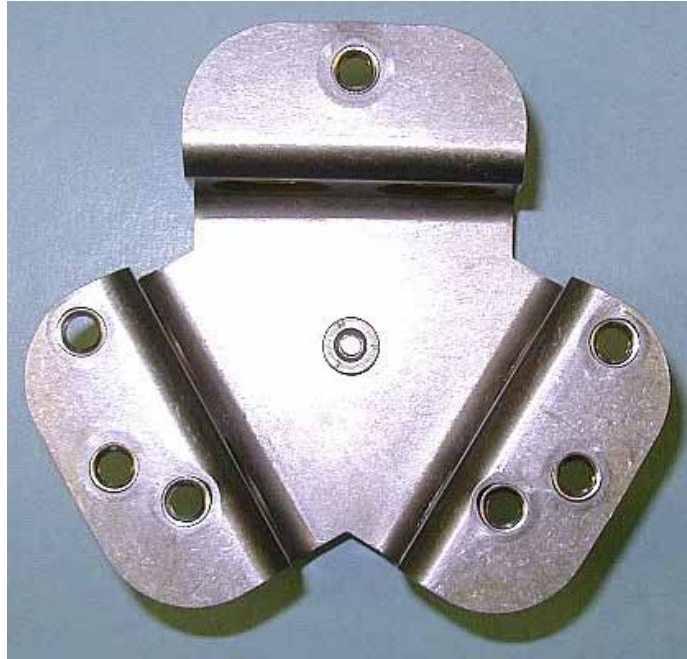




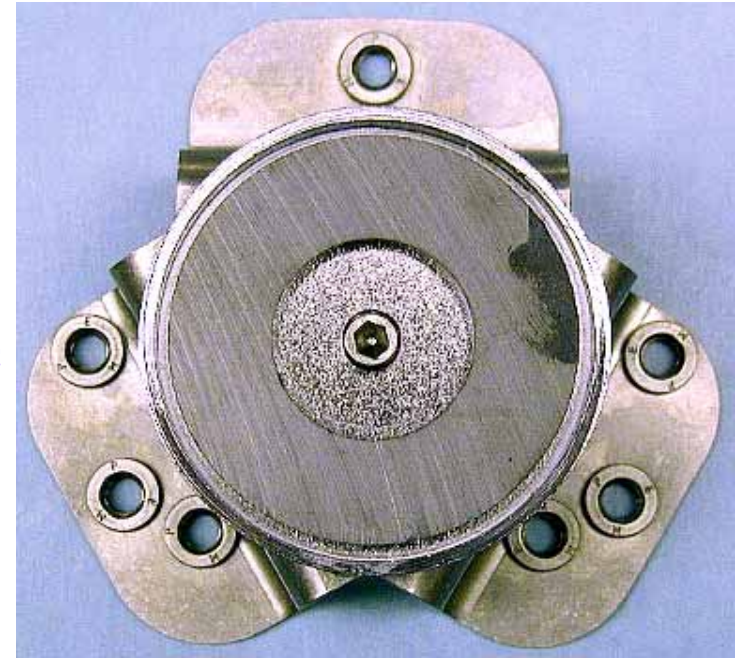
Optional Magnetic Mount Extension, P/N: MTR-5 for 3G, 4G, 5G, 53G, 73G, S3IR , S4IR, S53, S5G Antenna Series



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



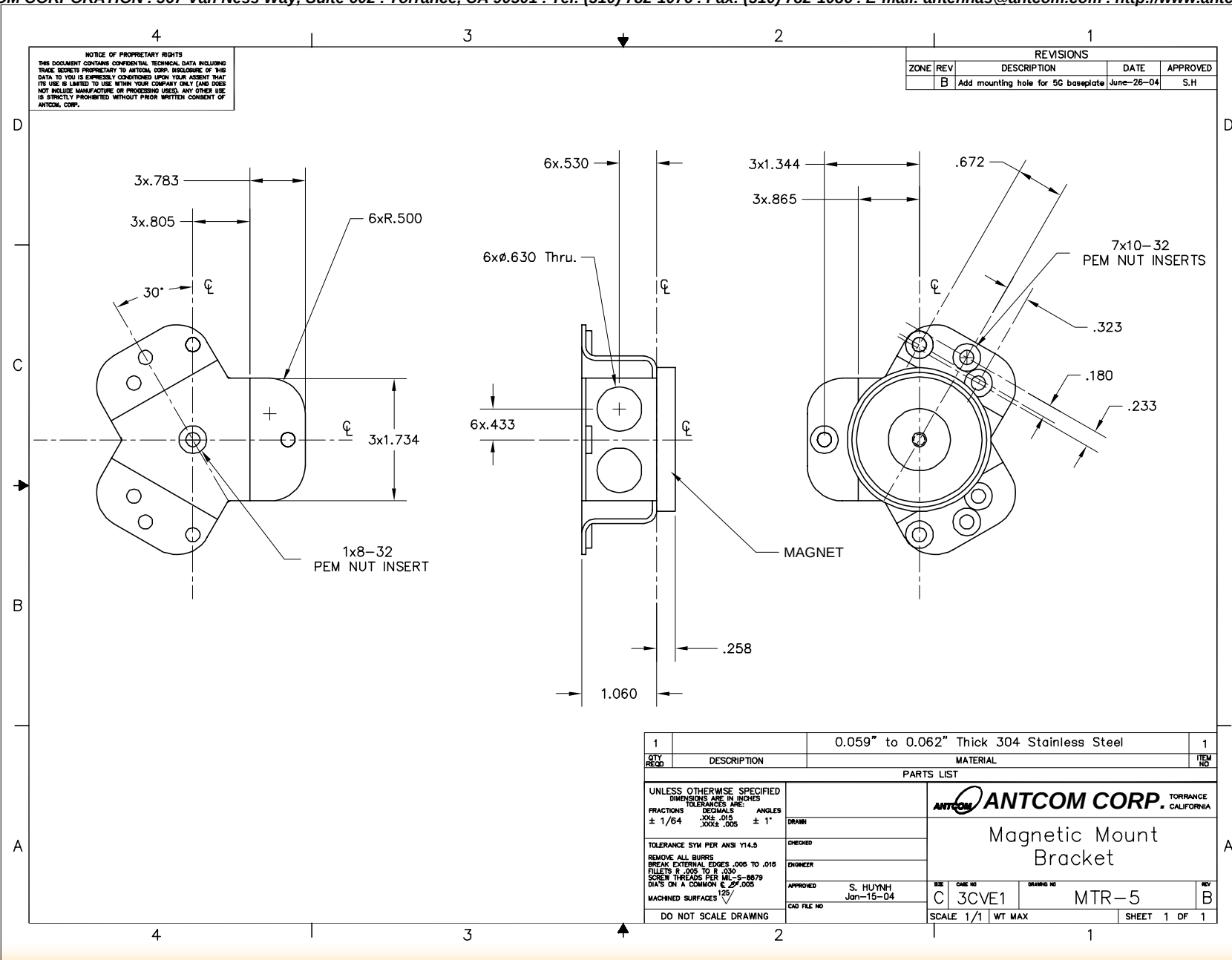


Magnetic Mount, P/N: MTR-5

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



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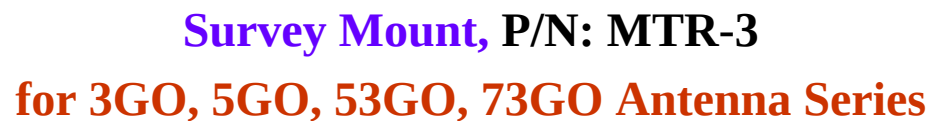
Survey Mount, P/N: MTR-3
for 3GO, 5GO, 53GO, 73GO Antenna Series



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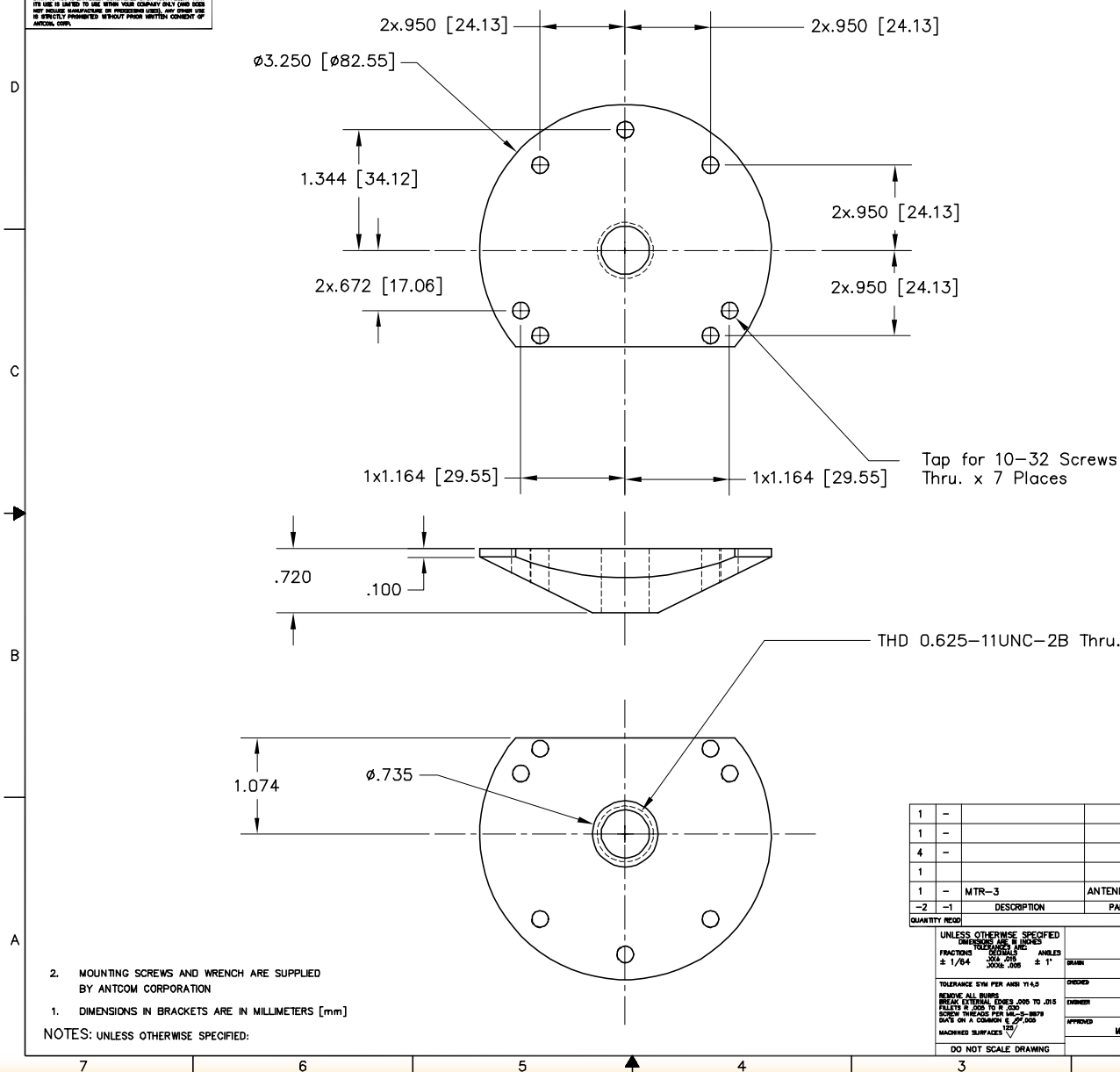


3.25" Dia. x 0.72" High,
5/8-11 Thread



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ANTECH CORP.

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROV



1	-			-	-	-	
1	-			-	-	-	
4	-			-	-	-	
1							
1	-	MTR-3	ANTENNA MOUNT	-	6061-T6 AL. ALLOY	Black Anodize MIL-C-5541 CLASS 3	
QTY	-1	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	
QUANTITY REQUIRED		PARTS LIST					

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:

FRACTIONS	DECIMALS	ANGLES
$\pm 1/64$	.004 .015 .0002 .008	$\pm 1^\circ$

TOLERANCE 5YM PER ANSI Y14.5

REINFORCING ALL BURNS

BREAK EXTERNAL EDGES .005 TO .015

FILLETS R .005 TO R .030

SCREW THREADS PER MIL-C-8878

DRAWN ON A SURFACE OF .005

MACHINE THE COMBES 125

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

	SURVEY ANTENNA MOUNT
--	----------------------

SIZE	QWANT NO	SEASON NO	
D	3CVF1	MTR-3	

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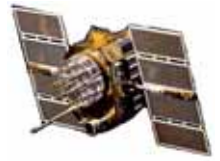
2. MOUNTING SCREWS AND WRENCH ARE SUPPLIED
BY ANTCOM CORPORATION

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

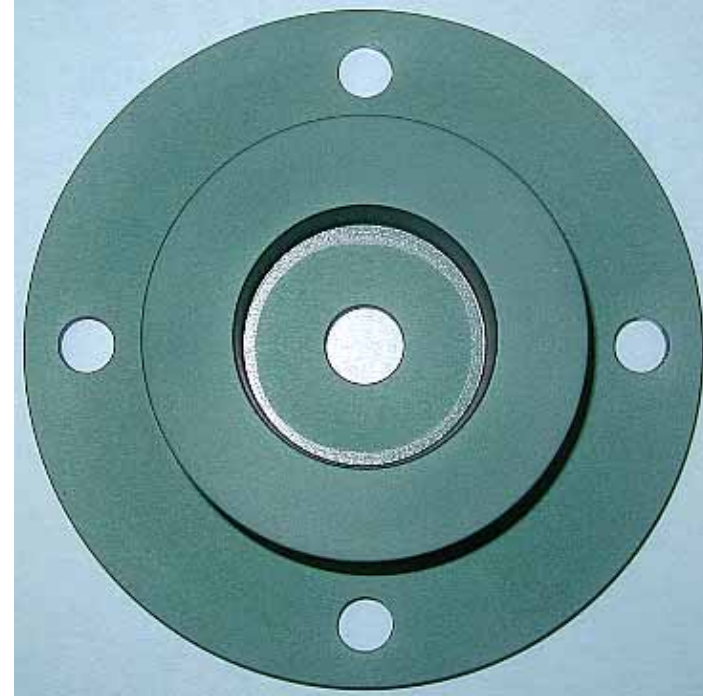
NOTES: UNLESS OTHERWISE SPECIFIED:



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



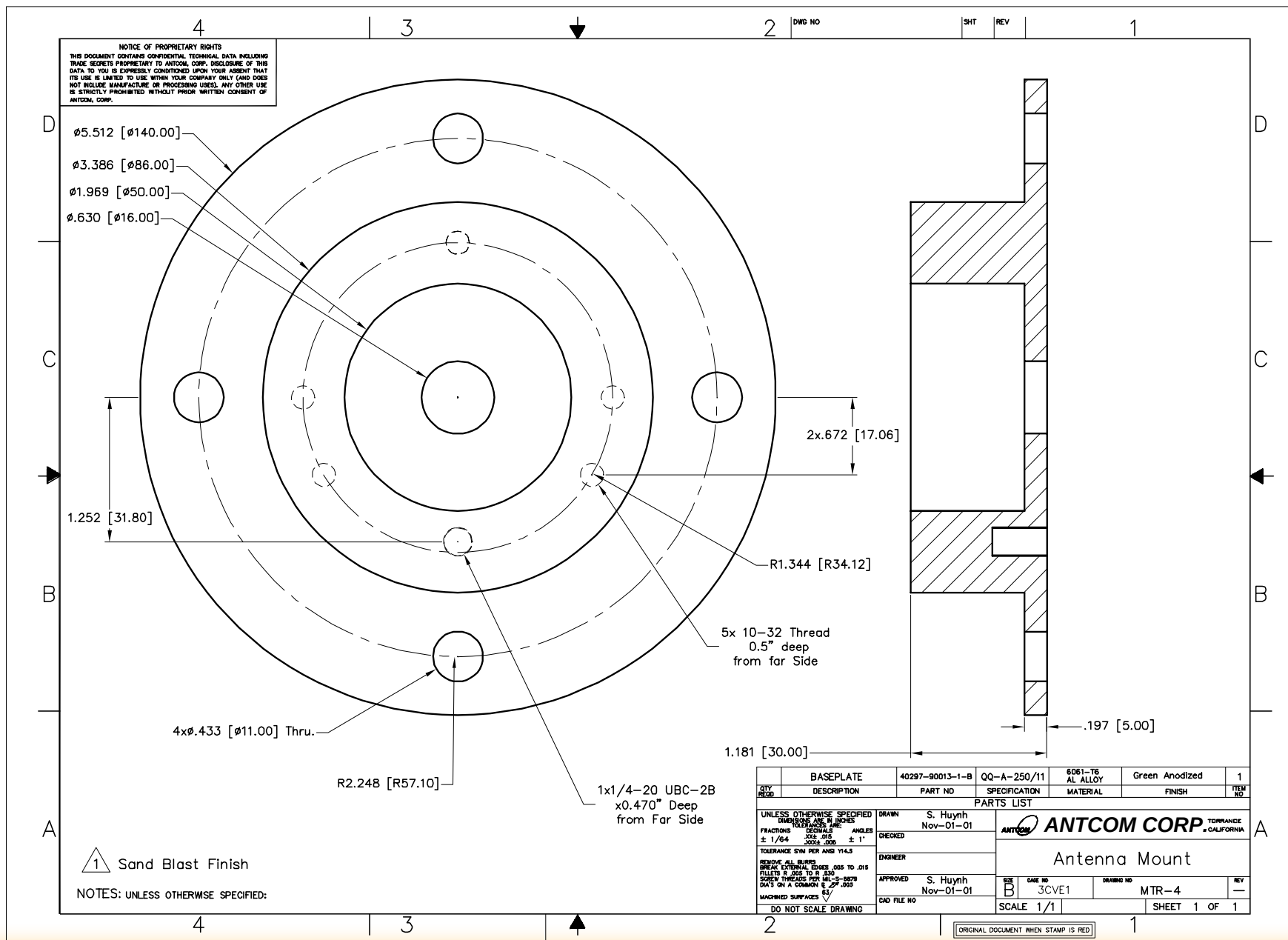


Motorola Antenna Mount, P/N: MTR-4

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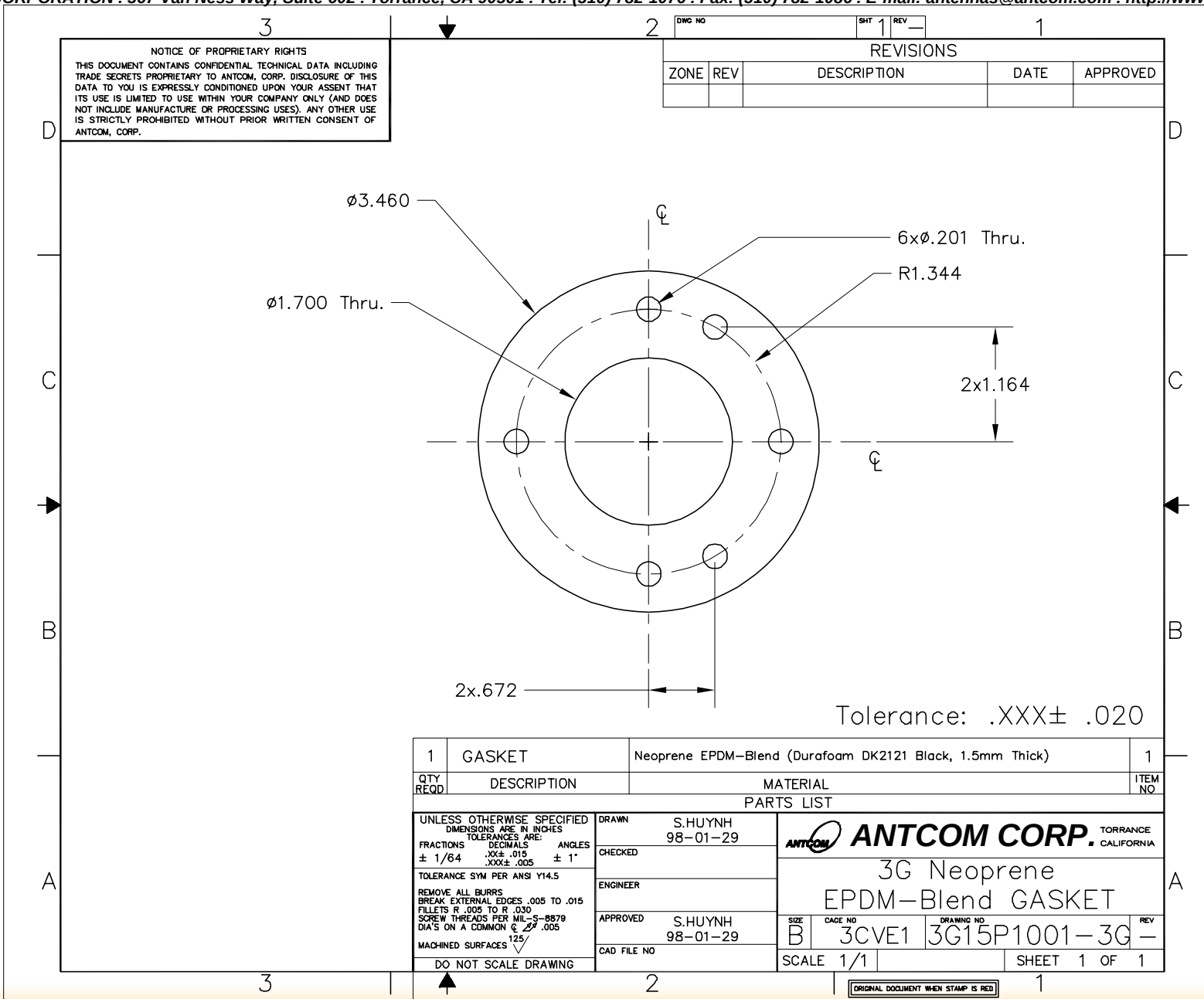
P/N: 3G15P1001-3G,
3.4"Dia. x 0.060" Thick

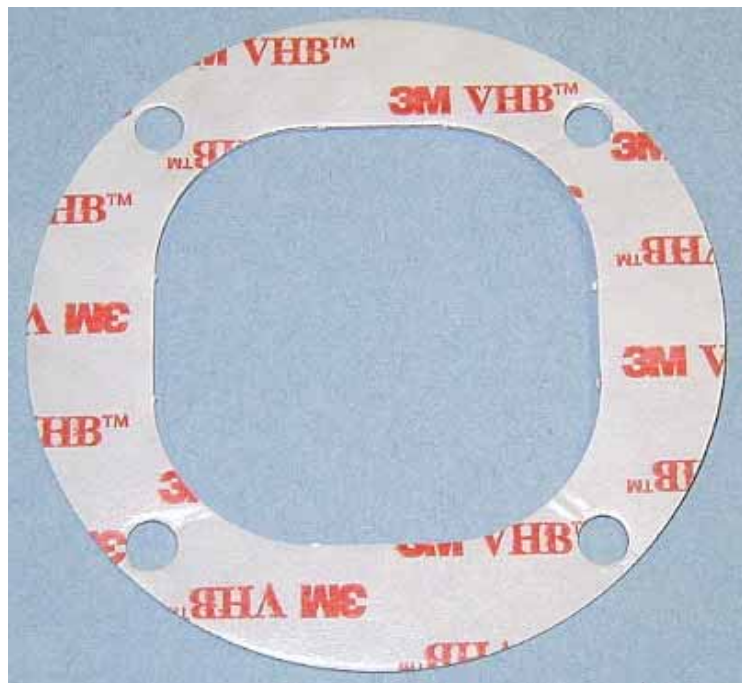


Mounting Gasket (Optional), P/N: 3G15P1001-3G for 3G, 31G, 5G, 53G, 73G, S3IR, S53 Antenna Series



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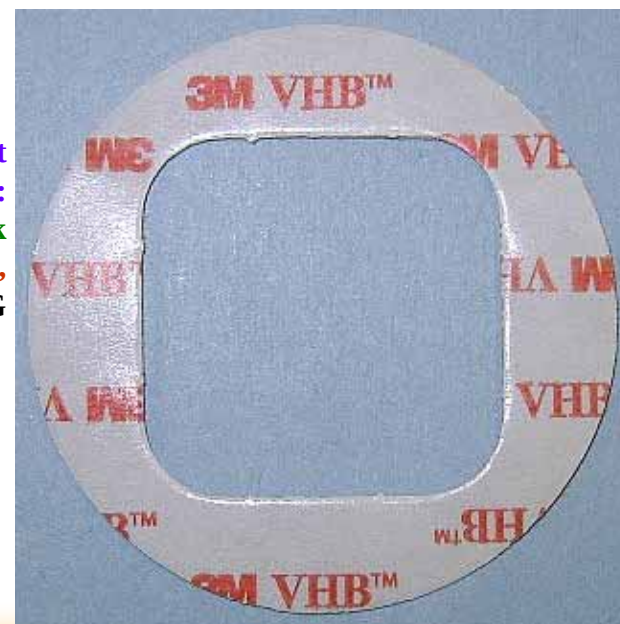
Adhesive Mounting Gasket
(Optional):
3.0" Dia. x 0.025" Thick
for 3G, and S3 Antenna Series,
P/N: 12345G-3M-3G



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		DATE	APPROVED
ZONE REV	DESCRIPTION	DATE	APPROVED
	RELEASED TO PROD. PER DON #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"

PARTS LIST		MATERIAL	THICKNESS
1	Material: 3M: 4936 or Similar, Thickness=0.025"	Adhesive Gasket	1

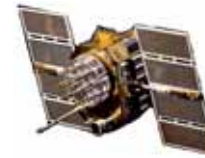
UNLESS OTHERWISE SPECIFIED		ANTCOM CORP.	
FRACTIONS	DECIMALS	DRAWN	S. Huyth
± 1/64	± .001	CHECKED	00-12-19
TOLERANCE DIM PER ANG VLA	ANGLES ± 1°	DESIGNED	
REMOVE ALL BURRS	REMOVE EXTERNAL EDGES .015 TO .016	MANUFACTURED	
FILE IN JOB TO B 100	FILE IN JOB TO B 100	APPROVED	S. Huyth
DO NOT SCALE DRAWING	DO NOT SCALE DRAWING	DATE	00-12-19
		SCALE	1/1
		SHEET	1 OF 1

3G & 1G
Adhesive Gasket

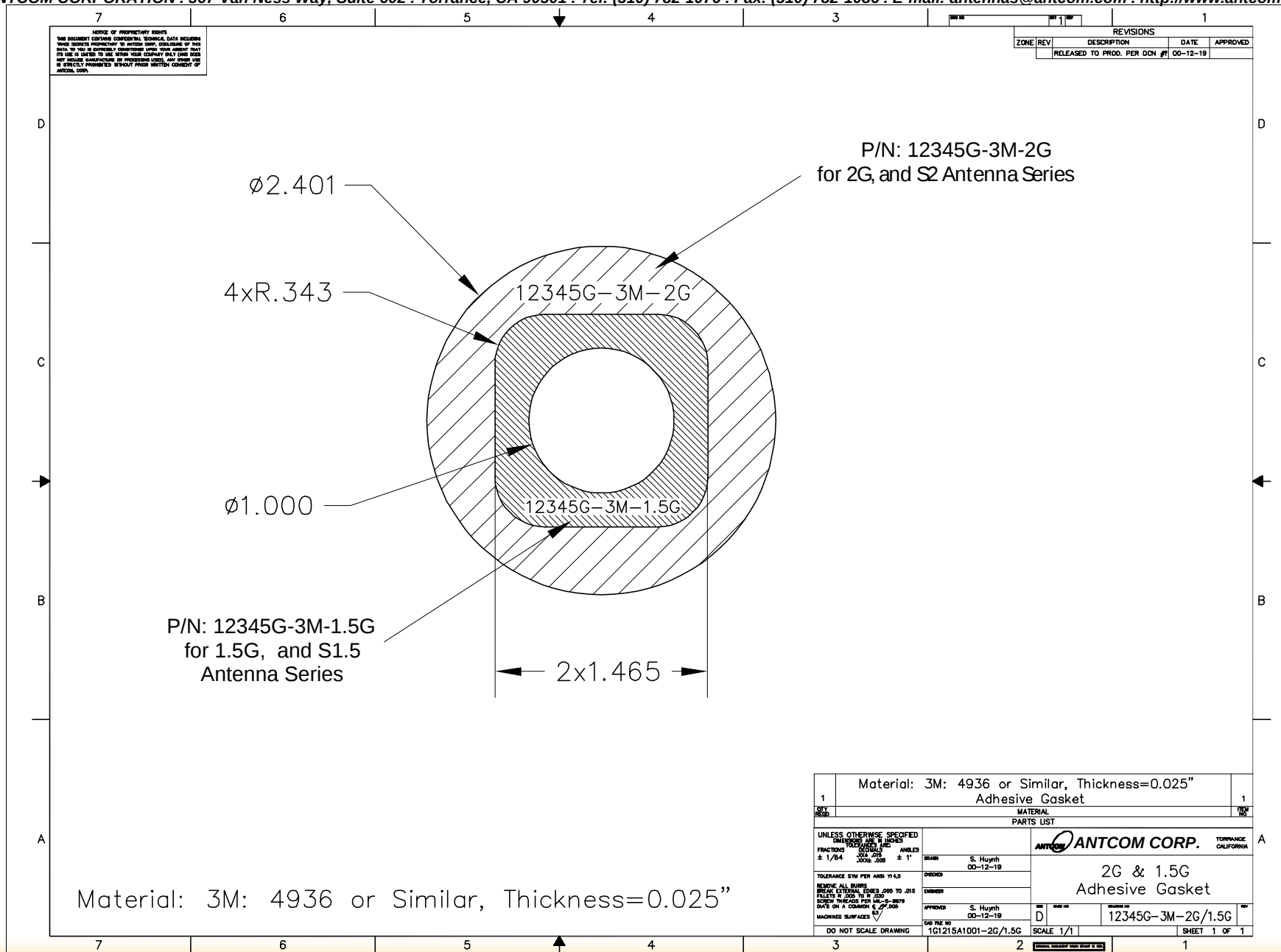
12345G-3M-3G/1G



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



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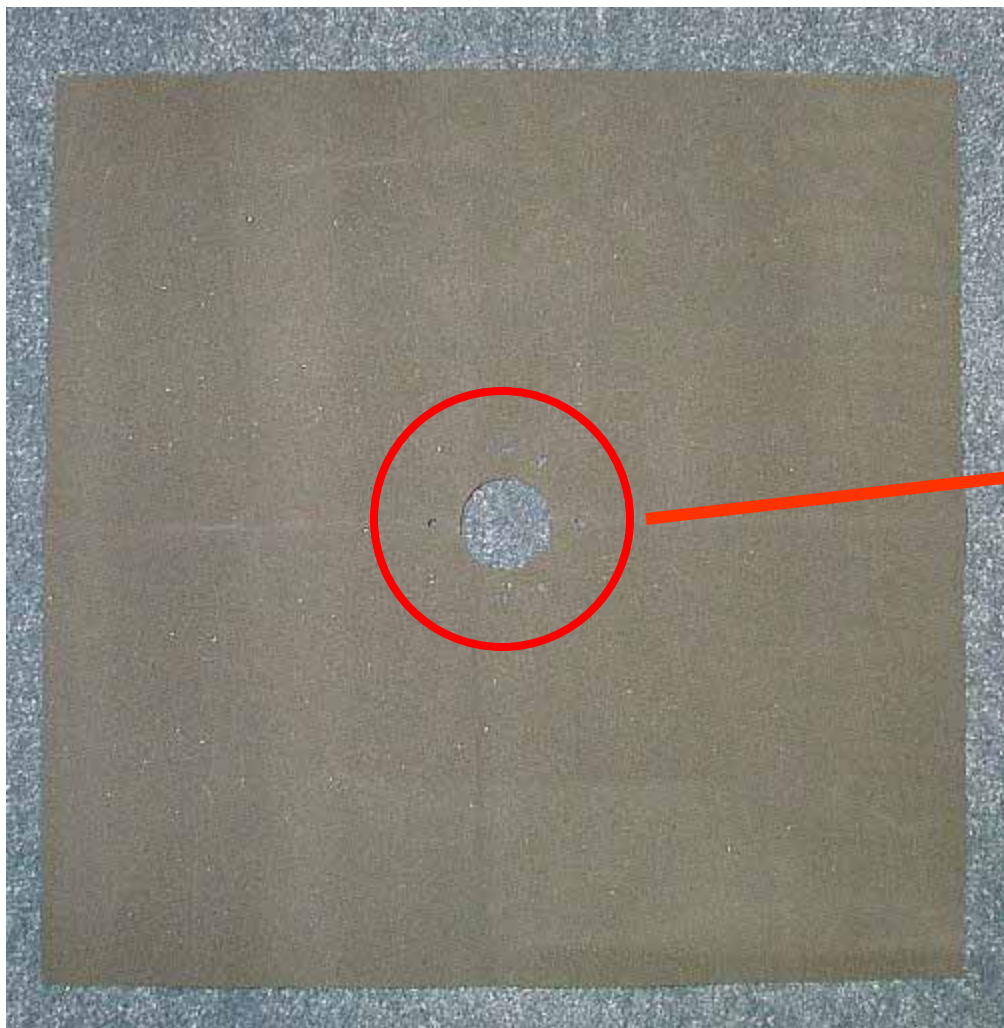




**Environmental Protection for Installation Using MTR-1/-2 (Optional),
P/N: 3G15P1001-17 for 73G, 3G, 31G, 5G, 53G, S3IR , S53 Antenna Series**



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



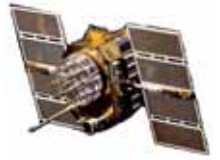
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[illegible]



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)