



FAA Approved Facility

Active GPS/Glonass and Rx Inmarsat/Iridium Antenna

P/N: 1.3G1216A2-118NS-X-SO6 (118in (3m) Cable/SMA Male Connector)

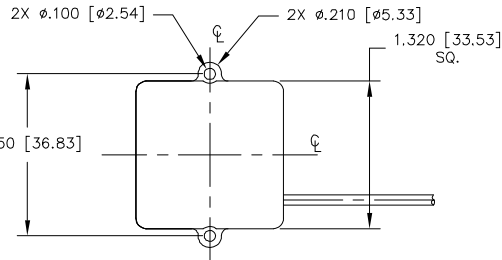
Front/Back Mount Configuration, Other Frequency Bands, Connectors and Colors are also Available

Antenna Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>



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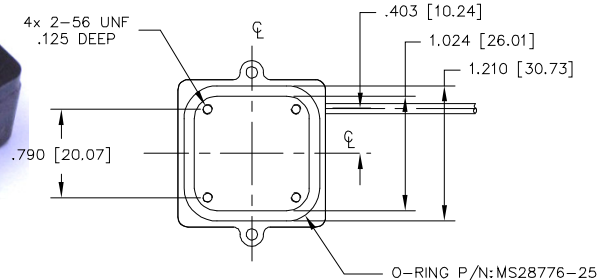
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.547 [13.89]
1 PIECE RADOME FROM TOP TO BOTTOM, HERMETICALLY SEALED WITH NO AIR GAP

.145 [3.68]
HARD BLACK ANODIZE 6061-T6 ALUMINUM ALLOY BASE

SMA MALE CABLE/CONNECTOR (OPTION: QMA, TNC, SMB, SSMA, SSMC, SSMP, MCX, MMCX OR SMP)



SIZE:	FREQ. BAND:	LNA:
1: 2" SQ.	1215: L1/L2	A2: WITH 20 dB LNA
1.8: 1.9" SQ.	15: LT ONLY	A4: WITH 43 dB LNA
2: 2.6" DIA.		P: WITHOUT LNA
3: 3.5" DIA.		
4: MINI ARINC		

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CABLE'S LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	C: QMA, S: SMA, RS: R-SMA,	-1: GLOSS WHITE #17925 PER FED-STD-595B
IK: IAC, N: NO MAG.	M: MCX, S: SMB, SSMA, SSMC, SSMP,	-2: LUSTERLESS GRAY #33920 PER FED-STD-595B
R: CABLE LENGTH (IN)	I: TNC, P: PINS, M: MCX, SMP: SPM PLUG	-3: CAMO GREEN #34094 PER FED-STD-595B
RT: RIGHT ANGLE CON.	L: RM, Right Angle, Male Lemo	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
		-5: DESERT TAN #33446 PER FED-STD-595B

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	L1 GPS: 1575.42 ± 15.0 MHz		L2 GPS: 1227.60 ± 12 MHz	
	L1 GLONASS: 1598 - 1609 MHz		L2 GLONASS: 1242 - 1252 MHz	
	Rx INMARSAT: 1542±17 MHz		Rx IRIDIUM: 1610-1626 MHz	
RADIATION PATTERN:	HEMISPHERICAL			
POLARIZATION:	RHCP			
VSWR:	< 2.0:1		< 2.0:1	
IMPEDANCE:	50 ohms		50 ohms	
ANTENNA GAIN (dBic):	Free Space	3 in G.P.	Free Space	3 in G.P.
@ 90 ° (ZENITH):	+ 0.4	+ 3.2	- 2.2	+ 0.0
@ 10 ° Elevation:	- 4.6	- 4.1	- 10.6	- 4.4
@ 15 ° Elevation:	- 4.5	- 3.8	- 8.5	- 3.5
@ 20 ° Elevation:	- 4.5	- 3.5	- 6.3	- 2.5
@ 30 ° Elevation:	- 3.3	- 1.8	- 4.0	- 1.7
@ 40 ° Elevation:	- 2.5	- 0.6	- 3.3	- 1.6
@ 50 ° Elevation:	- 2.0	+ 0.5	- 3.3	- 1.5
@ 60 ° Elevation:	- 1.5	+ 1.5	- 3.3	- 0.9
@ 70 ° Elevation:	- 0.7	+ 2.4	- 3.2	- 0.4
@ 80 ° Elevation:	+ 0.1	+ 3.0	- 3.2	- 0.1
BEAM WIDTH (3dB):	100 Deg.	80 Deg.	100 Deg.	140 Deg.
AXIAL RATIO:	1.0 dB		3.0 dB	
LIGHTNING PROTECTION:	DC GROUNDING			

LNA OPTION:

LNA GAIN: 24.0 dB (Option 43 dB)
LNA NOISE FIGURE: 1.8 dB
LNA P 1dB Out: +10 dBm
VOLTAGE/CURRENT: (+2.8 TO +28) Volts DC / (15 TO 25) mA

MECHANICAL:

SIZE: 1.320 in.[33.53 mm] SQ.
HEIGHT: .692 in [17.58 mm]
WEIGHT: 1.3 oz. (36.8 g)
FINISH: BASE: HARD BLACK ANODIZE PER MIL-A-8625F, TYPE III, CLASS 2
RADOME: SKYDROL RESISTANT POLYURETHANE ENAMEL PER FED-STD-595B
MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
COMPOSITE RADOME, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT
CONNECTOR: SMA MALE CABLE/CONNECTOR (OPTION: QMA, TNC, SMB, SSMA, SSMC, SSMP, MCX, MMCX, OR SMP)

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
ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

1	O-RING	MS28776-25	-	-	-	1	
QUANTITY	RECD	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	REV
-2	-1						NEW
PARTS LIST							
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS TO BE USED UNLESS OTHERWISE NOTED ANGLES TO BE SHOWN UNLESS OTHERWISE NOTED ± 1/64 DECIMALS TO BE SHOWN UNLESS OTHERWISE NOTED TOLERANCE SHOWN PER ANSI Y14.5 REMOVE ALL BURRS BREAK ALL DIMENSION LINES TO .015 FILED IN .005 TO .010 .005 BREAK OVER FOR DIM'S ON A COMMON & .005 MACHINED SURFACES							
ORIGINAL DRAWN S. HUYNH Dec-03-12							ANTCOM CORP. TORRANCE, CALIFORNIA HERMETICALLY SEALED ACTIVE L1/L2 GPS/GLONASS ANTENNA P/N: 1.3G1216A2-118NS-X-SO6 SCALE 1/1 SHEET 1 OF 1
ORIGINAL DESIGNED S. HUYNH Dec-03-12							
UPDATED S. HUYNH Feb-05-16							
UPDATE DRAWN P. Tron Feb-05-16							
APPROVED S. HUYNH Feb-05-16							
DO NOT SCALE DRAWING							