



# 20,000G Telemetry (TM) Antenna

**P/N: 0.9G22P-4NMM-X-1.615-X** (4 in. Cable/MMCX Connector, 1.615" Conformal Radius)



Other Frequencies, Connector, Cable Length, Temperature(300° C), Mounting and Color Options are Available

FAA Approved Facility

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

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### SPECIFICATIONS

ZONE	REV	REVISIONS		
		DESCRIPTION	DATE	APPROVED
<b>ELECTRICAL:</b> FREQUENCY: S-BAND, Fc = 2.255GHz (2.200 - 2.300) GHz RADIATION PATTERN: HEMISPHERICAL POLARIZATION: LHCP (Other Polarization is Available) VSWR: 2:1 IMPEDANCE: 50 ohms ANTENNA GAIN (dBi): Free Space 3 in G.P. @ 90° (ZENITH): + 1.8                   + 3.8 @ 10° Elevation: - 5.3               - 4.3 @ 20° Elevation: - 3.2               - 2.2 @ 30° Elevation: - 1.5               - 0.7 @ 60 - 90° Elevation: > 0.5       > 2.5 BEAM WIDTH (3dB): 100 Deg.           120 Deg. AXIAL RATIO: 2.5 dB LIGHTNING PROTECTION: Yes RF CENTER PIN DC BLOCK: Yes L1 GPS (1575MHz) REJECTION: 30 dB POWER HANDLING: 100 Watt				
<b>MECHANICAL:</b> SIZE: 1.250 in. [31.75 mm] SQ. HEIGHT: 0.366 in. [9.30 mm] WEIGHT: 0.75 oz. (22 g) FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5541F Type I Class 3 MATERIAL: 6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT CONNECTOR: MMCX Cable (OPTION: SMA, TNC, MCX, SMB, SMC, SSMA, SSMB, SSMC)				
<b>ENVIRONMENTAL:</b> TEMPERATURE: -67° F TO +305° F [-55° C TO +150° C] ALTITUDE: 70,000 ft. VIBRATION: 20,000 G's LEAKAGE: HERMETICALLY SEAL				
<b>FEDERAL &amp; MILITARY SPECIFICATIONS:</b> DESIGN TO: FAA TSO-C144, DO-160D, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455				
<b>ACCEPTANCE TEST PROCEDURE:</b> ATP-GPS-1.1L2-100				

FREQ. BAND:	LNA:	CONFORMAL RADIUS:	TEMPERATURE:
1215: L1/L2	A2: WITH 20 dB LNA	X: FLAT	X: -67° F TO 305° F (-55° C TO 150° C)
15: L1 ONLY	A4: WITH 40 dB LNA	1.615: 1.615"	300: -67° F TO 372° F (-55° C TO 300° C)
22: (2.100 - 2.300) GHz	P: WITHOUT LNA	X.XXX: X in .XXX	

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SIZE:	CONNECTOR:	COLOR:
1: 2" SQ.	S: SMA; RS: R-SMA; P: PINS; M: MCX;	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.9: 1.9" SQ.	MM: MMCX; SMB: SSMA, SSMB, SSMC,	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA.	SSMP, SMP, T, TB; TNC, TNC-Bulkhead	-3: CAMO GREEN #34094 PER FED-STD-595B
3: 3.6" DIA.		-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
		-5: DESERT TAN #33446 PER FED-STD-595B
		-X: NO PAINT

NOTES: UNLESS OTHERWISE SPECIFIED:

UNLESS OTHERWISE SPECIFIED	ORIGINAL DRAWN	ANTCOM CORP. TORRANCE CALIFORNIA
TOLERANCES ARE IN INCHES	S. HUYNH	High Vibration/Temperature Telemetry (TM) Antenna
FRACTIONS: DECIMALS: ANGLES	April-14-14	
± 1/64    ± .005    ± 1°	ORIGINAL DESIGNED	
	S. HUYNH	
	April-14-14	
TOLERANCE SHIP PER AMS Y14.5	UPDATED	
BREAK ALL SURFACES	S. HUYNH	
REMOVE EXTERNAL THREADS .005 TO .015	Feb-18-16	
FILED # 002 TO 9.036	P. TRAYN	
SCREW THREADS PER MIL-C-8879	Feb-18-16	
DRAWN ON A COMMON 1/2" X 7/8"	APPROVED	
MACHINED SURFACES 1/2"	S. HUYNH	
	Feb-18-16	
DO NOT SCALE DRAWING		