



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



ISO 9001:2008/FAA Approved Facility

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

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

MECHANICAL:

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)

SPECIFICATIONS

ELECTRICAL:	
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 (dBic):	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

ENVIRONMENTAL:

TEMPERATURE: -67° F TO +305° F [-55° C TO +150° C]
ALTITUDE: 70,000 ft.
VIBRATION: 20,000 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-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	

P/N: 0.9G22P-4NMM-X-X-X

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: 3.9" 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	ANTCOM CORP.
TOLERANCES ARE IN INCHES	TORRANCE CALIFORNIA
FRACTIONS DECIMALS ANGLES	
± 1/64 ± .005 ± .1°	
TOLERANCE SHIP PER AMS Y14.5	
BREAK ALL SHIPS	
REMOVE EXTERNAL STOPS .005 TO .015	
FILED # 002 TO # 005	
SCREW THREADS PER MIL-C-8879	
DIPS ON A CONFORMAL R. 2.000	
MACHINED SURFACES .75	
DO NOT SCALE DRAWING	