



20,000G Telemetry (TM) Antenna

P/N: 0.9G22P-4NMM-X-X-X-TM (4 in. Cable/MMCX Connector)

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

REVISIONS	
ZONE	DESCRIPTION

ELECTRICAL:

FREQUENCY:	S-BAND, Fc = 2.255GHz	
RADIATION PATTERN:	(2.200 - 2.300) GHz	
POLARIZATION:	HEMISPHERICAL	
VSWR:	LHCP (Other Polarization is Available)	
IMPEDANCE:	2:1	
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	

MECHANICAL:

SIZE: 1.270 in.[32.26 mm] x 1.25 in.[31.75 mm]
HEIGHT: 0.481 in. [12.21 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)

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

MOUNTING BRACKET

VIEW A-A

MECHANICAL:

90/180 Deg Flexible Cable Downward Bending

TABLES:

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 572°F (-55 °C TO 300°C)
22: (2.100 - 2.300) GHz	P: WITHOUT LNA	X.XXX; X In .XXX	

QUANTITY REQ:

QTY	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	REF
1	MOUNTING BRACKET	92TM-M	-	-	-	2
-2	-1					1

SIZE:

1: 2" SQ.	CONNECTOR:	COLOR:
1.8: 1.9" SQ.	S: SMA; RS: R-SMA; P: PINS; M: MCX;	-1: GLOSS WHITE #17925 PER FED-STD-595B
2: 2.6" DIA.	MM: MMCX, SMB; SSMA, SSMB, SSMC,	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
3: 3.5" DIA.	SSMP, SMP, T, TB: TNC, TNC-Bulkhead	-3: CAMO GREEN #34094 PER FED-STD-595B
		-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
		-5: DESERT TAN #33446 PER FED-STD-595B
		-X: NO PAINT

ANTCOM CORP. TORRANCE, CALIFORNIA

High Vibration/Temperature Telemetry (TM) Antenna

SCALE 1/1

SHEET 1 OF 1