



20,000G Telemetry (TM) Antenna

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

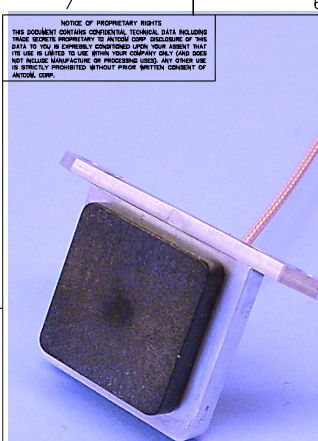
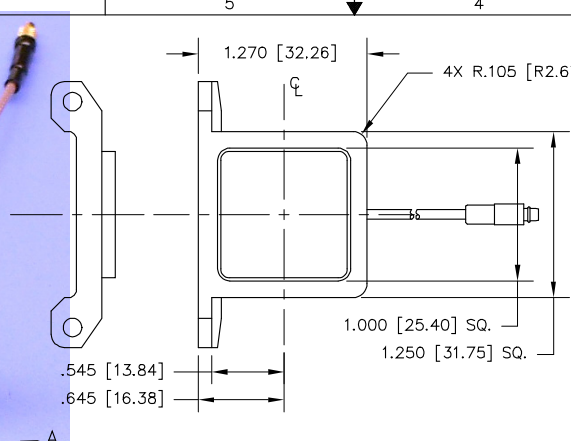
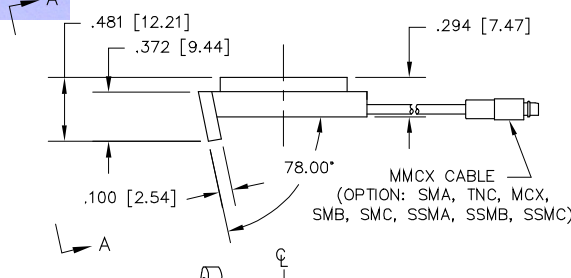
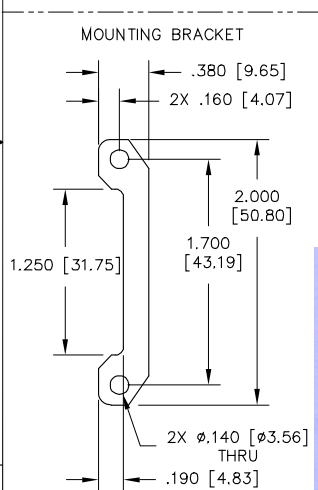
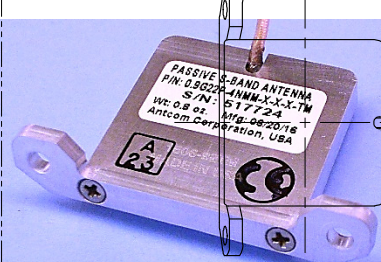
Other Frequencies, Connector, Cable Length, Temperature(300° C), Mounting and Color Options are Available



ISO 9001:2008/FAA Approved Facility

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

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SPECIFICATIONS

REVISIONS	
ZONE	DESCRIPTION

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

ELECTRICAL:

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-11L2-100

FREQ. BAND: 1215: L1/L2	LNA: A2: WITH 20 dB LNA	CONFORMAL RADIUS: X: FLAT	TEMPERATURE: 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	

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

SIZE: 1: 2" SQ.	CONNECTOR: S: SMA; RS: R-SMA; P: PINS; M: MCX;	COLOR: -1: GLOSS WHITE #17925 PER FED-STD-595B
1.8: 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: 3.5" 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 DIMENSIONS ARE IN INCHES	FRACIONS ARE IN HUNDRETHS	DECIMALS ARE IN THOUSANDS	ANGLES ARE IN DEGREES
± 1/64	± .005	± .005	± 1°

TOLERANCE SURF PER ANSI Y14.5	ORIGINAL DRAWN	S. HUYNH	Apr-14-14
BREAK EXTENSION LINES .005 TO .015	ORIGINAL DESIGNED	S. HUYNH	Apr-14-14
FILETS R .005 TO R .002	UPDATED	S. HUYNH	Feb-18-16
SCREW THREADS PER MIL-C-8879	UPDATE DRAWN	P. TRAN	Feb-18-16
DATA ON A COMMON & 27-005	APPROVED	S. HUYNH	Feb-18-16
MACHINED SURFACES	DO NOT SCALE DRAWING		

ANTCOM CORP. TORRANCE, CALIFORNIA	
High Vibration/Temperature Telemetry (TM) Antenna	
REV: 3	DATE: 01/18/16
APP: D	SCALE: 1/1
PART NO: 3CVE1	SHEET 1 OF 1