

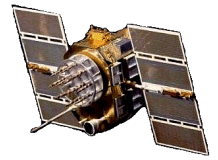


ISO 9001:2008/FAA Approved Facility

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

Passive L1/L2 GPS Conformal Antenna

4U884-6552303-001 Rev C (15090SOCN2263689-1)
Antcom's P/N: 3G1215P-XS-3-7.5EM Rev D



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SPECIFICATIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
B		Format Change	OCT-31-08	S.H
C		No top Screw Radome	Nov-24-10	S.H
D		2D Bar Code Label	Dec-01-11	S.H

ELECTRICAL:

FREQUENCY:	L1: (1575.42 ±15) MHz	L2: (1227.60 ±15) MHz
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	RHCP	RHCP
VSWR:	< 1.5:1	
IMPEDANCE:	50 ohms	
ANTENNA GAIN (dBi):	Free Space	8 in Dia. Tube, 2 ft Long
	Free Space	8 in Dia. Tube, 2 ft Long
@ 90 ° (ZENITH):	+ 5.4	+ 3.5
@ 10 ° Elevation:	- 1.6	+ 0.2
@ 20 ° Elevation:	0.0	+ 2.0
@ 30 ° Elevation:	+ 1.3	+ 2.8
@ 60 - 90 ° Elevation:	> 4.2	> 2.0
BEAM WIDTH (3dB):	102 Deg.	149 Deg.
AXIAL RATIO:	2 dB	2 dB
LIGHTNING PROTECTION:	DC GROUNDING	
POWER HANDLING:	200 Watt CW	

MECHANICAL:

SIZE: DIAMETER = 3.50 in.[88.90 mm]
HEIGHT = 0.660 in. [16.76 mm]
7.0 oz. (198 g)

WEIGHT:

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDITE PER MIL-C-5441

COLOR: GLOSS WHITE #17925 PER FED-STD-595B

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT

CONNECTOR: SMA FEMALE (GOLD PLATED)
(OPTION: TNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX, or Cable)

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

REVISIONS

REV	DESCRIPTION	DATE	APPROVED
4	MOUNTING SCREWS: 10-32, 3/4"		MS24693C274
1	Adapter Plate for for 4" Radius Radome (Option)		3G1215P-XS-3-4P-B3
1	Adapter Plate for for 7.5" Radius Radome (Option)		3G1215P-XS-3-7.5EM-B3
1	Adapter Plate for for 3.5" Radius Radome (Option)		3G1215P-XS-3-3.5N-B3
1	Adapter Plate for for X" Radius Radome (Option)		3G1215P-XS-3-X-B3

PARTS LIST

QTY	DESCRIPTION	PART NO	REV
4	MOUNTING SCREWS: 10-32, 3/4"	MS24693C274	5
1	Adapter Plate for for 4" Radius Radome (Option)	3G1215P-XS-3-4P-B3	4
1	Adapter Plate for for 7.5" Radius Radome (Option)	3G1215P-XS-3-7.5EM-B3	3
1	Adapter Plate for for 3.5" Radius Radome (Option)	3G1215P-XS-3-3.5N-B3	2
1	Adapter Plate for for X" Radius Radome (Option)	3G1215P-XS-3-X-B3	1

P/N: 3G1215P-XS-3-7.5EM

SIZE:	FREQ. BAND:	LNA:	CONFORMAL RADIUS OPTION:
1; 2" SQ.	1215; L1/L2	A; WITH 33dB LNA, A2; WITH 20 dB LNA, A4; WITH 40 dB LNA	-3; 3.000" RADIUS
1.8; 1.9" SQ.	15; L1 ONLY	AL; WITH LNA/LIMITER/FILTER	-3.5H; 3.500" RADIUS (NETFIRE, GMLRS, NLOS)
2; 2.6" DIA.		P; PASSIVE (WITHOUT LNA)	-4P; 4.000" RADIUS (PAVEWAY)
3; 3.5" DIA.		PL; PASSIVE WITH LIMITER/FILTER	-4M; 4.000" RADIUS (MAVERICK)
4; MINI ARINC			-7.5EM; 7.500" RADIUS (EGBU, MALD)
			-14A; 14.00" RADIUS (ACM)
			-X; X" RADIUS (Ø: Flat, No Radius)

CABLE'S LENGTH:	CONNECTOR:	COLOR:
X; NO ADAPTER	S; SMA; RS; R-SMA; P; PINS	-1; GLOSS WHITE #17925 PER FED-STD-595B
M; MAG. N; NO MAG.	M; MCX; MM; MMCX	-2; LUSTERLESS GRAY #36320 PER FED-STD-595B
#; CABLE LENGTH (IN)	N; NBR; N; N-Bulkhead	-3; OLIVE DRAB GREEN #34031 PER FED-STD-595B
A; WITH ADAPTER	T; TB; TNC; TNC-Bulkhead	-4; LUSTERLESS BLACK #37039 PER FED-STD-595B
		-2R; GRAY #36375 PER FED-STD-595B

NMO Connector Option is Now Available for Some Antennas