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### SPECIFICATIONS

**ELECTRICAL:**

	L1: (1575.42±12) MHz	L2: (1227.60±12) MHz	GSM (902 - 928) MHz
FREQUENCY:			
RADIATION PATTERN:	HEMISPHERICAL		
POLARIZATION:	RHCP	RHCP	VERTICAL
VSWR:	< 1.5:1	< 1.5:1	< 2.0:1
IMPEDANCE:	50 ohms	50 ohms	50 ohms
ANTENNA GAIN (dBi):	Free Space	4 ft G.P.	Free Space
@ 90° (ZENITH):	+5.0	+3.1	+0.7
@ 10° Elevation:	-2.1	-1.9	-5.8
@ 20° Elevation:	-0.6	+0.6	-4.3
@ 30° Elevation:	+0.9	+1.7	-3.4
@ 60 - 90° Elevation:	> 4.0	> 2.4	> -0.9
BEAM WIDTH (3dB):	103 Deg.	143 Deg.	94 Deg.
AXIAL RATIO:	2 dB		2 dB
LIGHTNING PROTECTION:	DC GROUNDING		
LNA GAIN:	33 dB		35 dB
LNA NOISE FIGURE:	3.0 dB		3.0 dB
LNA P1dB Out:	+13 dBm		+13 dBm
LNA DC POWER:	2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24V)/<50mA		
REJECTION @ (-50/+50)MHz:	-41 dB / -59 dB		-40 dB / -40 dB
@ (-100/+100)MHz:	< -65 dB		< -65 dB
POWER HANDLING:	1 Watt CW, Optional: 10 Watts 1 microsec Pulse (-AL-)		

**MECHANICAL:**

SIZE: WIDTH: 3.00 in. [76.20 mm], LENGTH: 4.700 in. [119.38 mm], HEIGHT: 0.788 in. [20 mm]

WEIGHT: 8.00 oz. (226g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDIUM PER MIL-C-5541

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

CONNECTOR: 2x 5in SMA FEMALE CABLES (OPTION: TNC, SMA, 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, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

**ACCEPTANCE TEST PROCEDURE** ATP-GPS-L1L2-100

QTY	DESCRIPTION	PART NO	TEXT NO
4	MOUNTING SCREW: (10-32, 1")	MS24693C276	5
1	O-Ring, or GASKET	2-036/N756-75	1

SIZE	FREQ. BAND	LNA
1: 2" SQ.	G1215: GSM/L1/L2	A: WITH LNA: A4 WITH 40 DB LNA WITHOUT REJECTION FILTERS
1.5: 1.9" SQ.	G15: GSM/L1	AL: WITH LNA/LIMITER
2: 2.6" DIA.	1215: L1/L2	P: WITHOUT LNA
3: 3.5" DIA.	15: L1	PL: WITHOUT LNA and THINNER (HEIGHT = 0.58")
4: ARINC 743		A2: WITH 20 DB LNA WITHOUT REJECTION FILTERS

**P/N: 42GG1215A-5SSF-1**

3. ADHESIVE GASKET IS SUPPLIED BY ANTCOM CORPORATION  
2. MOUNTING HEX NUT AND LOCK WASHER ARE SUPPLIED BY ANTCOM CORPORATION  
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

CABLE LENGTH	GPS/GSM CONNECTOR	COLOR
X: NO CABLE	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: NIP; N: Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	T: TB; TNC; TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE IN INCHES  
FRACTIONS: DECIMALS: ANGLES  
± 1/64 ± .005 ± 1'

ANTCOM CORP. TORRANCE CALIFORNIA  
ARINC 743 Active L1/L2 GPS & GSM Antenna

DATE: 01-05-29  
SCALE: 1/1  
SHEET: 1 OF 1

NMO Connector is Now Available for Some Antennas