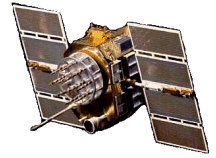




Active L1/L2 GPS & GSM Antenna

P/N: 2GG1215A-5SSF-1

2.6" Diameter, Back Mount Configuration



ISO 9001:2008/FAA Approved Facility

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

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

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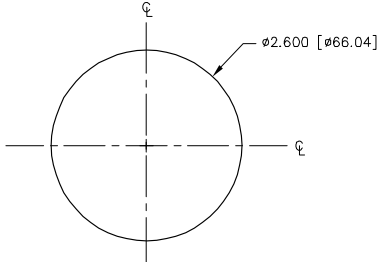
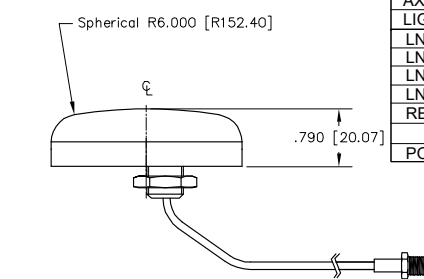
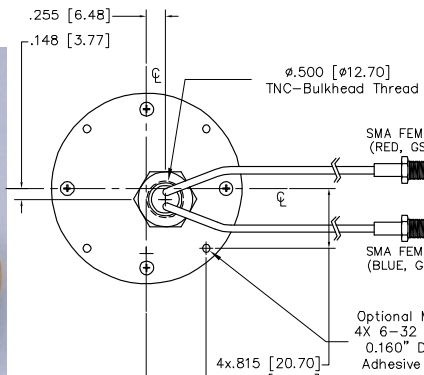
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SPECIFICATIONS

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		
ANTENNA GAIN (dBic):	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
@ 60 - 90° Elevation:	> 4.0	> 2.4	> - 0.9
BEAM WIDTH(3dB):	103 Deg	143 Deg	94 Deg
AXIAL RATIO:	2 dB		
LIGHTNING PROTECTION:	DC GROUNDING		
LNA GAIN:	33 dB	35 dB	
LNA NOISE FIGURE:	3.0 dB		
LNA P1dB Out:	+13 dBm		
LNA DC POWER:	2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24)V/<50mA		
REJECTION@ (-50/+50)MHz	-41 dB / -59 dB	-40 dB / -40 dB	
@ (-100/+100)MHz	< -65 dB		
POWER HANDLING	1 Watt CW, Optional: 10 Watts 1 microsec Pulse (-AL-)		

MECHANICAL:

SIZE: DIAMETER: 2.60 in. [66.04 mm]
HEIGHT: 0.790 in. [20.07 mm]

WEIGHT: 5.00 oz. (142g)

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

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

CONNECTOR: 2 x 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: 70,000ft.

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	SPECIFICATION	MATERIAL	FINISH	REV
1	ADHESIVE GASKET	12345G-3M-2G				5
1	WASHER, LOCK	AN936B816				2
1	HEX NUT, MOUNTING	1/2-20 HEX				1

UNLESS OTHERWISE SPECIFIED

ALL DIMENSIONS ARE IN INCHES

FRACTIONS TO BE DECIMALS UNLESS OTHERWISE SPECIFIED

DECIMALS TO BE INCHES UNLESS OTHERWISE SPECIFIED

ANGLES TO BE DEGREES UNLESS OTHERWISE SPECIFIED

TOLERANCE 5/16 PER ANSI Y14.5

REMOVE ALL BURRS

BREAK EXTERNAL EDGES .006 TO .016

FILED & DIM TO .002

REMOVE ALL SHARP EDGES PER MIL-C-8879

DRY ON A COMMON 6.25" DIA

MACHINED SURFACES 12.5

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

2.6in Dia/ Active L1/L2
GPS & GSM Antenna

DATE: 01-05-23

SCALE: 1/1

SHEET 1 OF 1

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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:

P/N: 2GG1215A-5SSF-1

SIZE	FREQ BAND	LNA
1: 2" SQ.	G1215: GSM/L1/L2	AL: WITH LNA; A4 WITH 40 DB LNA WITHOUT REJECTION FILTERS
1.9: 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: MINI ARINC		A2: WITH 20 DB LNA WITHOUT REJECTION FILTERS

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: NOMAG	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
IF: CABLE LENGTH IN	N: NB; N: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	T: TBI; TNC; TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

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NMO Connector Option is Now Available for Some Antennas