

L1/L2 GPS/Glonass Antenna

P/N: 1.9GO1216A-4.5NM-3-TB-NF2

1.9" Square, Flat Mount with Cable and Thinner Configuration

Noise Figure is Now Improved to 1.9 dB for L1 GPS/OmniStar/Glonass and 2.3 dB for L1/L2 GPS/OmniStar/Glonass as of June-01-14
 Antenna Mounts/Adapters: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

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

"HF" for High Iridium/Inmarsat/Thuraya-Rejection Front End Filter Option: -22dB@1616MHz, -34dB@1660MHz

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1.912 [48.56] SQ.
 4xR.716 [R18.19]
 .098 [2.49]
 3.78 [9.60]
 4.5 in. CABLE/MCX MALE CONNECTOR
 (OPTION: SMA, SMB, SSMA, SSMC, SSMP OR TNC)

Mounting:
 ADHESIVE GASKET

1108-99BR
 MADE IN USA

2. ADHESIVE GASKET IS SUPPLIED BY ANTCOM CORPORATION
 1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
 NOTES: UNLESS OTHERWISE SPECIFIED:

SIZE:	FREQ. BAND:	LNA:
1: 2" SQ	1215: L1/L2	A: WITH 33 dB LNA
1.9: 1.9" SQ.	15: L1 ONLY	A2: WITH 40 dB LNA
2: 2.8" DIA	1216: L1/L2 GPS & L1/L2 GLONASS	A4: WITH 40 dB LNA
3: 3.5" DIA		P: WITHOUT LNA
4: MINI ARINC		

CABLE'S LENGTH: CONNECTOR: COLOR:

X: NO CABLE	S: SMA; RS: R-SMA; P: PINS	1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAG. IN. NO MAG.	M: MCK; MM: MMCK; SMB	2: LUSTERLESS GRAY #36320 PER FED-STD-595B
F: CABLE LENGTH (IN) <th>SSMA; SSMB; SSMC; SSMP</th> <th>3: OLIVE DRAB GREEN #34094 PER FED-STD-595B</th>	SSMA; SSMB; SSMC; SSMP	3: OLIVE DRAB GREEN #34094 PER FED-STD-595B
R: RIGHT ANGLE CON. <th>T, TB: TNC; TNC-Bulkhead</th> <th>4: LUSTERLESS BLACK #37308 PER FED-STD-595B</th>	T, TB: TNC; TNC-Bulkhead	4: LUSTERLESS BLACK #37308 PER FED-STD-595B

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SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	L2 GPS	L2 GLONASS	L1 GPS	L1 GLONASS
	1227.60 ± 12 MHz	1242 - 1252 MHz	1575.42 ± 15.0 MHz	1598 - 1609 MHz
RADIATION PATTERN:	HEMISPHERICAL			
POLARIZATION:	RHCP			
VSWR:	< 1.5:1			
IMPEDANCE:	50 ohms			
ANTENNA GAIN (dBic):	Free Space	3 in G.P.	Free Space	3 in G.P.
@ 90 ° (ZENITH):	+ 3.7	+ 4.7	- 0.3	+ 0.7
@ 10 ° Elevation:	- 2.9	- 1.8	- 6.9	- 5.8
@ 20 ° Elevation:	- 1.3	- 0.3	- 5.3	- 4.3
@ 30 ° Elevation:	0.0	+ 1.4	- 4.0	- 2.6
@ 60 - 90 ° Elevation:	> 3.0	> 3.9	> -1.0	> -0.1
BEAM WIDTH (3dB):	108 Deg.	114 Deg.	114 Deg.	114 Deg.
AXIAL RATIO:	2 dB			
LIGHTNING PROTECTION:	DC GROUNDING			
LNA GAIN:	33 dB			
LNA NOISE FIGURE:	1.9 dB			
LNA P1dB Out:	+13 dBm			
LNA DC POWER:	2.5V/10mA, 3V/10mA, 3.3V/12mA, (2.5-24)V/<20mA			
POWER HANDLING:	1 Watt CW			

MECHANICAL:

SIZE: 1.912 in. [48.56 mm] SQ.
 HEIGHT: 0.378 in. [9.60 mm]
 WEIGHT: 2.0 oz. (56.7 g)
 FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
 BASE IRIDITE PER MIL-C-5441F
 MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
 COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT
 CONNECTOR: 4.5 in. CABLE/MCX MALE
 (OPTION: SMA, SMB, SSMA, SSMC, SSMP OR TNC)

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

QTY	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	REF
1	ADHESIVE GASKET	12345G-3M-1G	--	--	--	2
-2	-1					1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
 FRACTIONS: DECIMALS: ANGLES: ± 1/64 .005 .005 ± 1°
 TOLERANCE SH4 PER AWS #14.8
 REMOVE ALL BURRS
 BREAK EXTERNAL EDGES .005 TO .015
 CHAMFER .005 TO .015
 DATE ON A COMMON 8-27-08
 MACHINED SURFACES
 DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA
 1.9" SQ. Active L1/L2 GPS/Glonass Antenna with Cable
 D3CVE1 1.9GO1216A-4.5NM-3-TB-NF2
 SCALE 1/1 SHEET 1 OF 1