

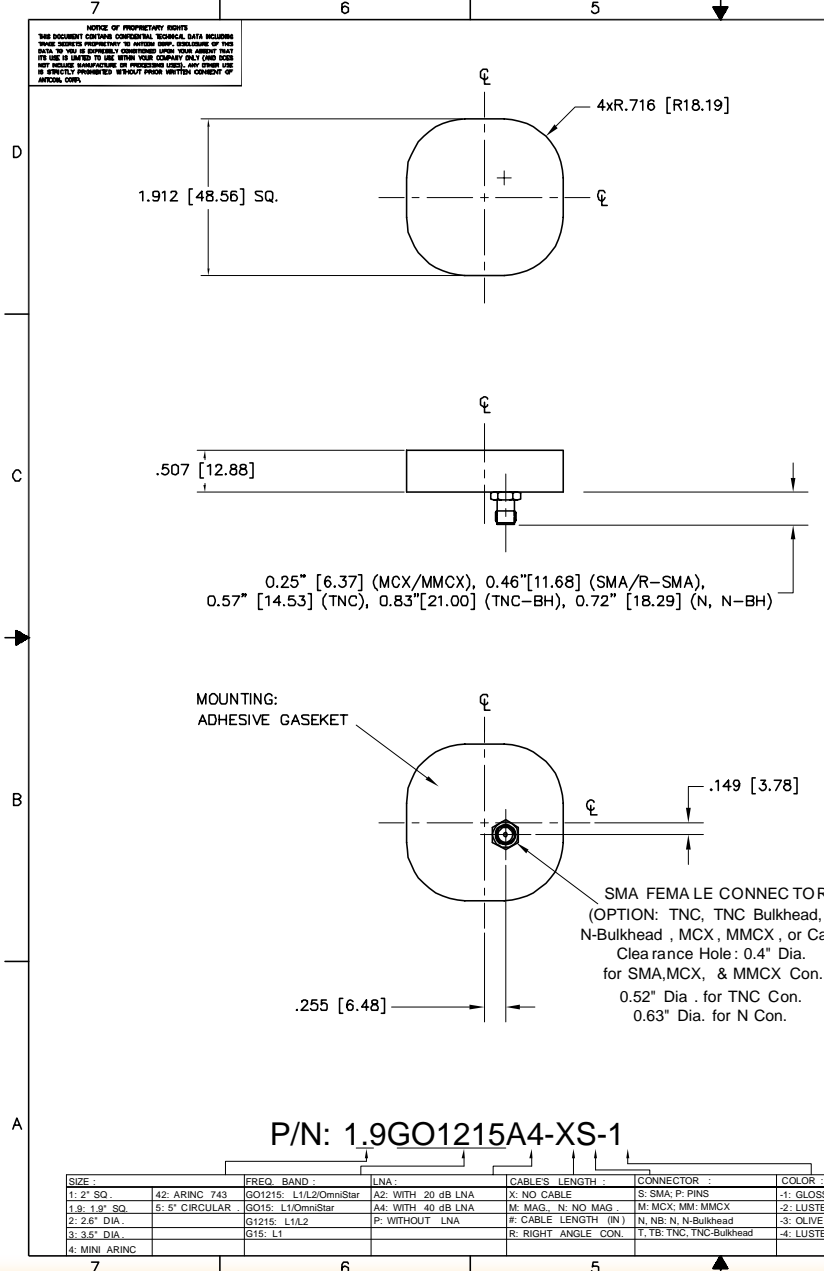
Connector is Available in SMA, MCX, MMCX, TNC, TNC-B, N, or N-Bulkhead (See Drawing)



L1/L2 GPS / L-Band Antenna, P/N: 1.9GO1215A4-XX-X :

1.9" Square x 0.5" Thick, Back Mount Configurations

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



ELECTRICAL: SPECIFICATIONS

		REVISIONS					
		ZONE	REV	DESCRIPTION	DATE	APPROVED	
FREQUENCY:		L1: (1575.42 ±13) MHz	O: (1542.5±17.5)MHz	L2: (1227.60 ±13) MHz			
RADIATION PATTERN:		HEMISPHERICAL					
POLARIZATION:		RHCP					
VSWR:		< 1.5:1					
IMPEDANCE:		50 ohms					
ANTENNA GAIN (dBic):		3.5" Dia. G.P	4 ft G.P.	3.5" Dia. G.P	4 ft G.P.	3.5" Dia. G.P	4 ft G.P.
@ 90 °(ZENITH):		+ 4.1	+ 2.5	+ 5.7	+ 2.5	+ 3.9	+ 4.9
@ 10 °Elevation:		- 3.5	- 3.0	- 1.8	- 3.0	- 3.8	- 3.6
@ 20 °Elevation:		- 2.1	- 0.2	- 0.4	- 0.2	- 2.3	- 0.1
@ 30 °Elevation:		- 0.8	+ 0.8	+ 0.9	+ 0.8	- 0.7	- 1.8
@ 60 - 90 °Elevation:		> 2.5	> 1.8	> 4.1	> 1.8	> 3.0	> 3.0
BEAM WIDTH (3dB):		87 Deg.	139 Deg.	89 Deg.	139 Deg.	97 Deg.	75 Deg.
AXIAL RATIO:		2 dB		2 dB		2 dB	
LIGHTNING PROTECTION:		DC GROUNDING					
LNA GAIN:		20 dB (...A2-), 40 dB (...A4-..)					
LNA NOISE FIGURE:		1.9 dB					
LNA P1dB Out:		+13 dBm					
LNA DC POWER:		(2.5-24) V / < 35 mA					
POWER HANDLING:		1 Watt CW					

MECHANICAL:

SIZE: 1.912 in.[48.56 mm] SQ.
 HEIGHT: 0.507 in.[12.88 mm]
 WEIGHT: 2.88 oz. (82 g)
 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 : SMA FEMALE
 (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, D0-228, MIL-C-5541,
 MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455
 ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

QUANTITY REQD	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	REF
5						
1	ADHESIVE GASKET	12345G-3M-1G				3
1						2
1						1
-2	-1					

P/N: 1.9GO1215A4-XS-1

SIZE :	FREQ. BAND :	LNA :	CABLE'S LENGTH :	CONNECTOR :	COLOR :
1: 2" SQ.	42: ARINC 743	GO1215: L1/L2/OmniStar	A2: WITH 20 dB LNA	X: NO CABLE	S: SMA; P: PINS
1.9" ±.01" SQ.	5: 5" CIRCULAR	GO15: L1/OmniStar	A4: WITH 40 dB LNA	M: MAG; N: NO MAG	M: MCK; MM: MMCX
2: 2.5" DIA.	G1215: L1/L2	P: WITHOUT LNA	R: CABLE LENGTH (IN)	N, NB; N, N-Bulkhead	3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
3: 3.5" DIA.	G15: L1		R: RIGHT ANGLE CON.	T, TB: TNC, TNC-Bulkhead	4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARINC					

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
 FRACTIONS: 1/16, 1/8, 3/16, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1
 DECIMALS: .005, .010, .015, .020, .025, .030, .035, .040, .045, .050, .055, .060, .065, .070, .075, .080, .085, .090, .095, .100
 TOLERANCE .010 PER ANSI Y14.3
 REMOVE ALL BURRS
 BREAK EDGES 1/16" TO .015
 HOLE DRILLING TO .0015
 DATE ON A CHANGE 8/27/03
 MACHINED SURFACES

ANTCOM CORP. TORRANCE, CALIFORNIA
 1.9" SQ. Active L1/L2 GPS/OmniStar ANTENNA
 D3CVE11.9GO1215X-XX-X
 SCALE 1/1 SHEET 1 OF 1