



P/N: 3GO1216A4-XX-1
(White)



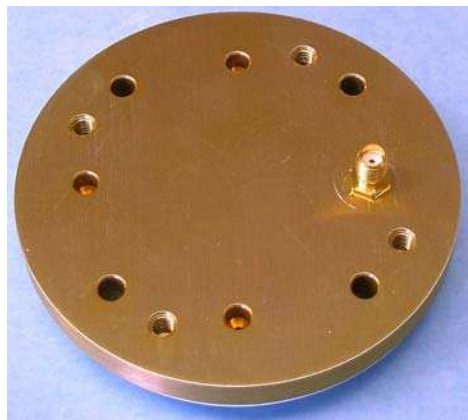
P/N: 3GO1216A4-XX-2
(Gray)



P/N: 3GO1216A4-XX-3
(Green)



P/N: 3GO1216A4-XX-4
(Black)



P/N: 3GO1216A4-XS-X
(SMA)



P/N: 3GO1216A4-XT-X
(TNC)



P/N: 3GO1216A4-XN-X
(N)

Hermetically Sealed, Designed for Harsh Environment Applications.

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

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Top View Dimensions:
 Diameter: $\phi 3.500$ [88.90]
 X, Y Phase Center
 4X $\phi .20$ [$\phi 5.11$] Thru. $\phi .385$ [$\phi 9.78$] X 100°
 for 10-32 MOUNTING SCREWS
 .950 [24.13]
 1.900 [48.26]
 .950 [24.13]
 1.900 [48.26]

Side View Dimensions:
 R6.000 [R152.40]
 Z Phase Center
 .575 [14.61]
 .775 [19.69]
 0.25" [6.37] (MCX/MMCX), 0.46" [11.68] (SMA/R-SMA), 0.57" [14.53] (TNC), 0.83" [21.00] (TNC-BH), 0.72" [18.29] (N, N-BH)

Bottom View Dimensions:
 1.039 [26.39]
 NAMEPLATE APPROXIMATE LOCATION
 4x 0.190-32UNC-2B
 0.250" Deep, Equally Spaced on 1.375" Rad. for Optional Mounting
 TNC FEMALE CONNECTOR (OPTION: SMA, TNC Bulkhead, N, N Bulkhead, MCX, MMCX, or Cable)

P/N: 3GO1216A4-XT-1

SIZE:	FREQ. BAND	LNA:	CABLE LENGTH	CONNECTOR	COLOR	
1: 2" SQ.	42: ARINC 743	GO1216.L1/L2GPS/GNSS/L-Band	A: 33 dB Gain	X: NO CABLE	S: SMA; P: PINS	-1: GLOSSWHITE#17925PER FED-STD-595B
1.9: 1.9" SQ.	5: 5" CIRCULAR	GO1215.L1/L2GPS/L-Band	A4: 40 dB Gain	M: MAG, N: NOMAG	M: MCX; MM: MMCX	-2: LUSTERLESSGRAY#36320PER FED-STD-595B
2: 2.6" DIA.		GO16.L1GPS/GNSS/L-Band	A2: 20 dB Gain	R: CABLE LENGTH(IN)	N: NB; N: N-Bulkhead	-3: OLIVE DRAB GREEN#34031PER FED-STD-595B
3: 3.5" DIA.		G1215.L1/L2	P: WITHOUT LNA	T: RIGHT ANGLE CON.	T: TB; TNC; TNC-Bulkhead	-4: LUSTERLESSBLACK#37038PER FED-STD-595B
4: MINI ARINC		GO1116.L1/L2/L3/L5/L6GPS/GNSS/Galileo	R: WITHOUT LNA			

SPECIFICATIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

ELECTRICAL:

	L2/L5 GPS/ L2/L3 Glonass/ E5A/E5B/E6 Galileo	L2 GPS	Rx L-Band/ L6 Galileo	L1 GPS/ L1/E1/E2 Galileo	L1 Glonass
FREQUENCY (MHz):	(1146-1301)	(1227.60±12)	(1525-1560)	(1555-1595)	(1602-1626)
ANTENNA GAIN (dBic):	Free Space	4 ft G.P.	Free Space	Free Space	4 ft G.P.
@ 90° (ZENITH):	+3.3	+4.9	+3.1	+5.5	+4.5
@ 10° Elevation:	-3.8	-3.6	-3.7	-1.2	-1.4
@ 20° Elevation:	-2.0	-0.1	-2.0	+0.3	+1.4
@ 30° Elevation:	-0.5	-1.8	-1.3	+1.8	+2.2
@ 60-90° Elevation:	> 2.7	> 3.0	> 2.0	> 4.8	> 3.8
BEAMWIDTH (3dB):	106 Deg.	75 Deg.	106 Deg.	106 Deg.	130 Deg.
RADIATION PATTERN:	HEMISPHERICAL				
POLARIZATION:	RHCP				
VSWR:	< 1.5:1				
IMPEDANCE:	50 ohms				
AXIAL RATIO:	3 dB				
LIGHTNING PROTECTION:	DC GROUNDING				
LNA OPTION					
LNA GAIN:	40 dB (-A4), 20 dB (-A2), 35 dB (-A)				
LNA NOISE FIGURE:	2 dB				
LNA P1dB Out:	+13 dBm				
LNA DC POWER:	(2.5-24) Volts @ < 39 mA				
POWERHANDLING:	200 Watts CW (WITHOUT LNA), 1 Watt CW (WITH LNA)				

SIZE: DIAMETER: 3.50 in. [88.90 mm]
 HEIGHT: 0.775 in. [19.69 mm]

WEIGHT: 8.8 oz. (249g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL WITH NICKEL PLATED BASE

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

CONNECTOR: TNC FEMALE CONNECTOR (OPTION: SMA, TNC Bulkhead, 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

QUANTITY REQD.	DESCRIPTION	PARTS LIST	PART NO.	FINISH	ITEM NO.
4	MOUNTING SCREWS: 10-32, 3/4"		MSZ4693C274	-	5
1	5" DIA. GROUND PLANE (Optional)		12G1215P001-B6 Rev A	-	3
1	SURVEY ANTENNA MOUNT (Optional)		MTR-3 Rev A	-	2

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 .001 ± .010 ± 1°

TOLERANCE SURF PER ANSI Y14.5 CHECKED M. BOAS 01-05-29

BREAK ALL EDGES .006 TO .016 FLATTEN FOR 1/8" DIA. SCREW THREADS FOR MIL-C-8879 DATA ON A COPPER PLATE MACHINED SURFACES

APPROVED S. HUYTH 01-05-29

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA
 Active L1/L2 GPS, Glonass/L-Band/Galileo Antenna
 DWG NO: 3GO1216A4-XT-1
 SCALE: 1/1 SHEET 1 OF 1