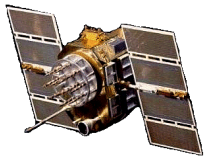
L1L2 GPS Antenna for Deep Sea Applications

P/N: 2G15A-XDGO-UU (For DGO Connectors)

P/N: 2G15A-XX-2-UU (For Other Connectors)

L1L2 and Other Frequencies and Connectors are Available. *Depth Rate = 10 Km*



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

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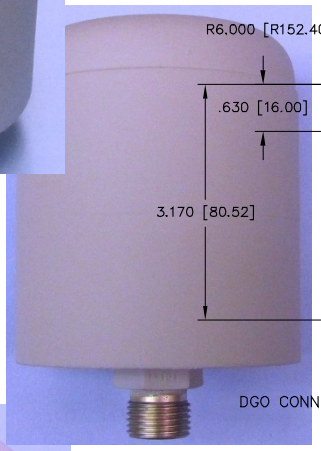
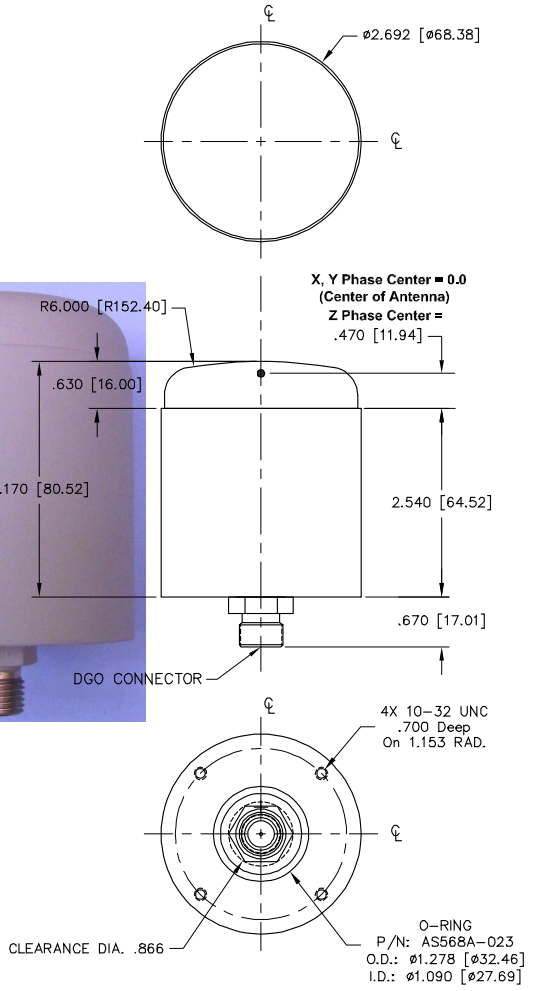
REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED





SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	L1: (1575.42 ±12) MHz		
RADIATION PATTERN:	HEMISPHERICAL		
POLARIZATION:	RHCP		
VSWR:	< 1.5:1		
IMPEDANCE:	50 ohms		
ANTENNA GAIN (dBic):	Free Space	16 in G.P.	4 ft G.P.
@ 90 ° (ZENITH):	+ 5.0	+ 2.5	+ 3.6
@ 10 ° Elevation:	- 2.3	- 2.9	- 1.7
@ 20 ° Elevation:	- 0.9	- 0.5	+ 1.0
@ 30 ° Elevation:	+ 0.7	+ 1.6	+ 2.4
@ 60 - 90° Elevation:	> 4.2	+4.7/+2.5	> 3.6
BEAM WIDTH (3dB):	102 Deg.	107 Deg.	127 Deg.
AXIAL RATIO:	2 dB		
LIGHTNING PROTECTION:	DC GROUNDING		
LNA GAIN:	33 dB		
LNA NOISE FIGURE:	2.4 dB		
LNA P1dB Out:	+13 dBm		
LNA DC POWER:	2.5V/20mA, 3V/20mA, 3.3V/20mA, (2.5-24)V/<30mA		
REJECTION @ (-50/+50) MHz	-45 dB / -70 dB		
@ (-100/+100) MHz	< -65 dB		

MECHANICAL:

SIZE:	BASE DIAMETER = 2.692 in. [68.38 mm], HEIGHT: 3.170 in. [80.52 mm]
WEIGHT:	1.10 oz. (499 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:	DGO FEMALE (OPTION: SMA, TNC, N, BNC)

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

SIZE:	FREQUENCY (GHz)	LNA:	CONNECTOR:	COLOR:
1: 2" SQ.	1215: L1/L2	A: LNA	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.9: 1.9" SQ.	15: L1 ONLY	A2: 20 dB LNA	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA.		A4: 40 dB LNA	N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
3: 3.5" DIA.		P: PASSIVE	T: TNC; TB: TNC- Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARINC			DGO: DGO	-5: TAN #33446 PER FED-STD-595B
				UU: Gray Color Teflon Coating

P/N: 2G15A-XDGO-UU

QUANTITY REQD	DESCRIPTION	PART NO	FINISH	ITEM NO
				3
1	O-RING,	AS568A-023, Item 553	-	2
4	SCREW, 10-32, 1.125"L	91772A834, Item 544-834	-	1

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS ± 1/64 DECIMAL .XX± .03 .XXX± .005 ANGLES ± 1°
TOLERANCE SYM PER ANSI Y14.5
REMOVE ALL BURRS BREAK EXTERNAL EDGES .005 TO .015 FILLETS R .025 TO R .030 SCREW THREADS PER MIL-S-8879 DIA'S ON A COMMON ℄ Ø.005 MACHINED SURFACES 125
DO NOT SCALE DRAWING

ORIGINALLY DRAWN	S. HUYNH	Jan-05-29
ORIGINALLY DESIGNED	S. HUYNH	Jan-05-29
UPDATED	S. HUYNH	Sep-30-14
UPDATE DRAWN	P. TRAN	Sep-30-14
APPROVED	S. HUYNH	Sep-30-14

ANTCOM CORP. TORRANCE CALIFORNIA

2.6" Dia
ACTIVE L1 GPS
ANTENNA

SIZE	DWG NO	DRAWING NO	REV
D	3CVE1	2G15A-XDGO-UU	-

SCALE 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas