



# Iridium Antenna for Deep Sea Applications

P/N: 2GIRP-XDGO-UU (with Ametek or DGO Connector, Pully Potted)

2.6" Diameter, Back Mount Configuration, Other Connector Options are Available





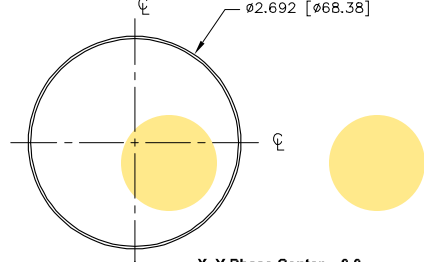
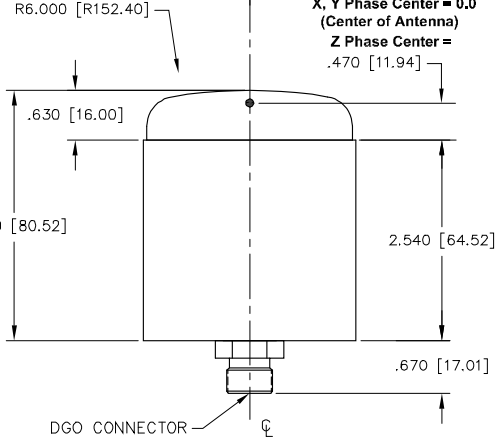
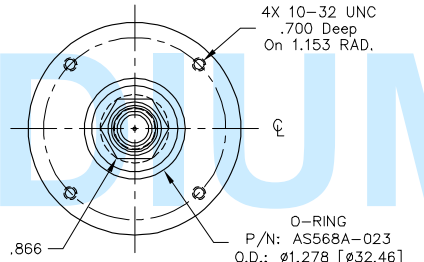
ISO 9001:2008/FAA Approved Facility

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

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**X, Y Phase Center = 0.0  
(Center of Antenna)  
Z Phase Center =  
.470 [11.94]**

**DGO CONNECTOR**

**O-RING  
P/N: AS568A-023  
O.D.:  $\phi 1.278$  [ $\phi 32.46$ ]  
I.D.:  $\phi 1.090$  [ $\phi 27.69$ ]**

**SPECIFICATIONS**

**ELECTRICAL:**

FREQUENCY:	(1610.0 - 1626.5) MHz	
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	RHCP	
VSWR:	< 1.5:1	
GAIN (dB):	4 ft G.P.	Free Space
@ 90° (Zenith):	+4.9	+4.4
@ 10° Elevation (Ave):	-1.0	-2.6
@ 20° Elevation (Ave):	+1.5	-1.0
@ 30° Elevation (Ave):	+2.4	+0.4
@ 45° Elevation (Ave):	+3.3	+2.5
@ 70° Elevation (Ave):	+4.7	+4.0
Beam Width (3dB):	129°	+106°
AXIAL RATIO @ Zenith:	2.0 dB	
IMPEDANCE:	50 Ohms	
POWER HANDLING:	200 Watt	
DC GROUNDING:	YES (LIGHTNING PROTECTION)	

**MECHANICAL:**

SIZE: BASE DIAMETER = 2.692 in. [68.38 mm],  
HEIGHT: 3.170 in. [80.52 mm]

WEIGHT: 1.10 oz. (499 g)

FINISH: TEFLON COATED

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, DO-228, MIL-C-5541,  
MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

REV	DESCRIPTION	DATE	APPROVED
1			
2			
3			
4			

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

SIZE:	FREQUENCY (GHz)	LNA:	CONNECTOR:	COLOR:
1: 2" SQ.	15: L1 ONLY	A: LNA	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.8: 1.9" SQ.	16: L1&RX/TX INMARSAT/	A2: 20 dB LNA	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA.	GLONASS/IRIDIUM	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

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	ORIGINAL DRAWN	ANTCOM CORP. TORRANCE, CALIFORNIA	
FRACTIONS DECIMALS ANGLES	S. HUYNH	<p style="text-align: center;"><b>2.6" Dia IRIDIUM -UU ANTENNA</b></p>	
$\pm 1/64$ .005 .005 $\pm 1^\circ$	Sep-30-14		
TOLERANCE SVM PER ANSI Y14.5	ORIGINAL DESIGNED		
RELIEVE ALL SHARP BREAK EXTERNAL EDGES .005 TO .015	S. HUYNH		
SMOOTH ALL SURFACES PER MIL-S-8879	UPDATED	<p style="text-align: center;">D 3CVE1 2GIRP-XDGO-UU</p>	
SKY'S ON A COSMOS 6-27-000	S. HUYNH	<p style="text-align: center;">SCALE 1/1 SHEET 1 OF 1</p>	
MACHINED SURFACES	APPROVED		
DO NOT SCALE DRAWING	P. TRAN		
	June-14-17		
	S. HUYNH		
	June-14-17		