

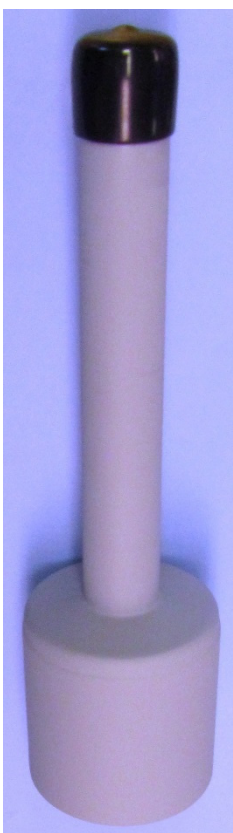
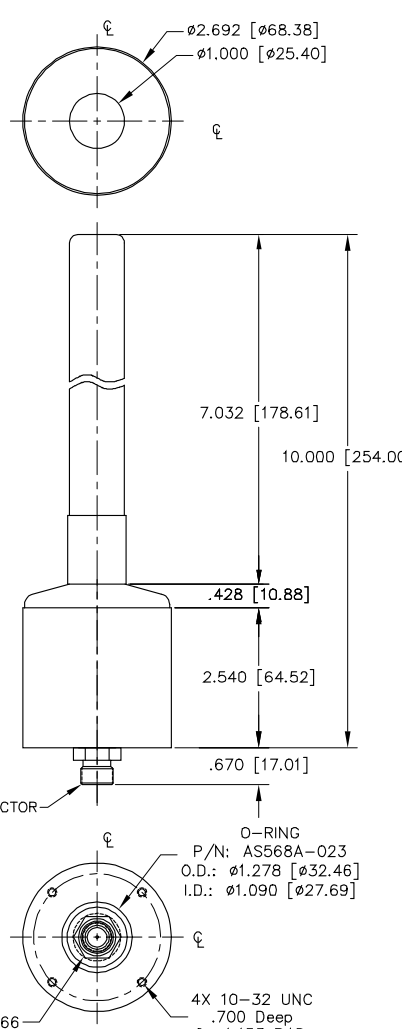


(161-163) MHz VHF Antenna for Deep Sea Applications
 P/N: 102-0.161-0.163V-XDGO-UU (For DGO Connectors)
 P/N: 102-0.161-0.163V-XX-2-UU (For Other Connectors)
 (900-930) MHz, (2.4-2.5) GHz, Other Frequencies and Connectors are Available. *Depth Rate = 10 Km (1455 PSI)*
 ISO 9001:2008/FAA Approved Facility Antenna Mounts/Adapters: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>



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Ø2.692 [Ø68.38]
 Ø1.000 [Ø25.40]

7.032 [178.61]
 10.000 [254.00]

.428 [10.88]
 2.540 [64.52]
 .670 [17.01]

O-RING
 P/N: AS568A-023
 O.D.: Ø1.278 [Ø32.46]
 I.D.: Ø1.090 [Ø27.69]

4X 10-32 UNC
 .700 Deep
 On 1.153 RAD.

CLEARANCE DIA. .866

DGO CONNECTOR

SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	(0.161 - 0.163) GHz
RADIATION PATTERN:	OMNI
POLARIZATION:	VERTICAL
VSWR:	< 2.0:1
GAIN (dB):	(-1.6 to 0) dBil
Elevation Beam Width (3dB):	(50 to 70) °
Azimuth Beam Width (3dB):	360 °
IMPEDANCE:	50 Ohms
POWER HANDLING:	200 Watt

MECHANICAL:

SIZE: BASE DIAMETER = 2.692 in. [68.38 mm],
 HEIGHT = 10.00 in [254.00mm]

WEIGHT: 1.4 lbs. (635 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
 BASE IRIDIUM PER MIL-C-5441

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

ZONE	REV	DESCRIPTION	DATE	APPROVED
1				
2				

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

FREQUENCY (GHz)	POLARIZATION:	CONNECTOR:	COLOR:
0.161-0.163: (161-163) MHz	V: VERTICAL	S: SMA; P: FINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
0.174-0.180: (174-180) MHz	L: LHCP	N: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
0.180-0.186: (180-186) MHz	R: RHCP	N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
0.186-0.192: (186-192) MHz		T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
0.192-0.198: (192-198) MHz		DGO: DGO	-5: TAN #33446 PER FED-STD-595B
X.XX-Y.YY:(X.XX-Y.YY) GHz			UU: Gray Color Teflon Coating

P/N: 102-0.161-0.163V-XDGO-UU

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ± 1/64 ± .005 ± 1°

TOLERANCE SURF PER ANS Y14.5
 BREAK EXTERNAL EDGES .005 TO .016
 FILED R .005 TO R .050
 SCREW THREADS PER MIL-S-8879
 DATA ON A COINAGE Q.27-005
 MACHINED SURFACES

DO NOT SCALE DRAWING

ORIGINAL DRAWN S. HUYNH
 Mar-21-07

ORIGINAL DESIGNED S. HUYNH
 Mar-21-07

UPDATED S. HUYNH
 Sep-1-14

UPDATE DRAWN P. TRAN
 Sep-1-14

APPROVED S. HUYNH
 Sep-1-14

ANTCOM CORP. TORRANCE CALIFORNIA

(161-163) MHz
 VHF OMNI ANTENNA

REV: 3CVE1
 PART NO: 102-0.161-0.163V-XDGO-UU

SCALE 1/1

SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas