



(900-930) MHz GSM/ISM/UHF Antenna for Deep Sea Applications

P/N: 102-0.90-0.93V-XDGO-UU (For DGO Connectors)

P/N: 102-0.90-0.93V-XX-2-UU (For Other Connectors)

(161-163) MHz, (2.4-2.5) GHz, Other Frequencies and Connectors are Available. *Depth Rate = 10 Km (14555 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]

DGO CONNECTOR

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

SPECIFICATIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

ELECTRICAL:

FREQUENCY:	(900-930) MHz
RADIATION PATTERN:	OMNI
POLARIZATION:	VERTICAL
VSWR:	< 1.5:1
GAIN (dB):	>2.1 dBil
ELE. BEAM WIDTH:	1 ELEMENT DIPOLE
AZ. BEAM WIDTH:	360 deg.
IMPEDANCE:	50 Ohms
POWER HANDLING:	200 Watt

MECHANICAL:

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

WEIGHT: 1.4 lbs. (635 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: 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

FREQUENCY (GHz)	POLARIZATION:	CONNECTOR:	COLOR:
0.31-0.40: (310-400) MHz	V: VERTICAL	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
0.35-0.40: (350-400) MHz	L: LHCP	M: MCK; MM: MMCK	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
0.40-0.45: (400-450) MHz	R: RHCP	N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
0.85-1.90: (850-1900) MHz		T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
1.20-2.60: (1200-2500) MHz		DGO: DGO	-5: TAN #33446 PER FED-STD-595B
X.XX-Y.YY:(X.XX-Y.YY) GHz			UU: Gray Color Teflon Coating

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

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
FRACTIONS: 1/64, 3/32, 1/8, 3/16, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1	DECIMALS: .005, .010, .015, .020, .030, .040, .050, .060, .070, .080, .090, .100, .125, .150, .175, .200, .250, .300, .375, .450, .500, .625, .750, .875, 1.000
TOLERANCE SYM PER ANSI Y14.5	ANGLES: ± 1°
REMOVE ALL SQUARE BREAK EXTERNAL EDGES .005 TO .015	FILED & BURN TO R. DR. SCREW THREADS PER MIL-S-8870
DATE ON A COMBINE & OF 005	MACHINED SURFACES: 125
DO NOT SCALE DRAWING	

ORIGINAL DRAWN: S. HUYNH Mar-21-07	ANTCOM CORP. TORRANCE, CALIFORNIA GSM/ISM/VHF OMNI ANTENNA								
ORIGINAL DESIGNED: S. HUYNH Mar-21-07									
UPDATED: S. HUYNH Sept-30-14									
UPDATE DRAWN: P. TRIAN Sept-30-14									
APPROVED: S. HUYNH Sept-30-14	<table border="1" style="width: 100%;"> <tr> <td>REV</td> <td>DATE</td> <td>REVISION</td> <td>BY</td> </tr> <tr> <td>D</td> <td>3CVE1</td> <td>102-0.90-0.93V-XDGO-UU</td> <td>-</td> </tr> </table>	REV	DATE	REVISION	BY	D	3CVE1	102-0.90-0.93V-XDGO-UU	-
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NMO Connector Option is Now Available for Some Antennas