



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

P/N: 103-0.90-0.93V-XDGO-UU (For DGO Connectors)

P/N: 103-0.90-0.93V-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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Dimensions: $\phi 3.562$ [$\phi 90.48$], $\phi 1.000$ [$\phi 25.40$], $3 \times \phi .201$ [$\phi 5.11$], $\phi .385$ [$\phi 9.78$] X 100° EQUALLY SPACED ON R1.344, 6.972 [177.09], 10.000 [254.00], 2.730 [69.35], 2.600 [66.04], .428 [10.88], .70 [17.78], CLEARANCE DIA. .866, 3X 10-32 UNC .700 DEEP ON 1.375 RAD

| REVISIONS | | | |
|-----------|-----|----------------|----------|
| ZONE | REV | DESCRIPTION | DATE |
| A | | VSMR 2:1 | 11/14/14 |
| B | | ANTENNA HEIGHT | 05/15/15 |

P/N: 103-0.90-0.93V-XDGO-UU

| 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: MCX; MM: MMCX | -2: LUSTERLESS GRAY #38320 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 |
| 0.85-1.80: (850-1900) MHz | | T: TNC; TB: TNC-Bulkhead | -4: LUSTERLESS BLACK #37038 PER FED-STD-595B |
| 1.20-2.50: (1200-2500) MHz | | DGO: DGO | -5: TAN #33446 PER FED-STD-595B |
| XX-XX.YY:(XX-XX.YY) GHz | | | UU: Gray Color Teflon Coating |

| QUANTITY REQD | DESCRIPTION | PARTS LIST | PART NO | MATERIAL | REV |
|---------------|-----------------------------------|------------|-----------|----------|-----|
| 3 | SCREW, 10-32, 3.5"L (Item544-325) | | 91771A844 | - | 1 |

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES TOLERANCES ARE

$\pm .1/64$.0015 .015 $\pm 1^\circ$

TOLERANCE SYM PER ANSI Y14.5

REMOVE ALL BURRS

BREAK EXTERNAL EDGES .005 TO .015

FILE TO .0015 R .005

SIZE IF INCREASED PER MIL-S-8878

DATE ON A CHANGE $\pm .0005$

MACHINED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

GSM/ISM/VHF OMNI ANTENNA

| | | |
|-----|-------|----------|
| REV | DATE | BY |
| D | 3CVE1 | S. HUYNH |

SCALE 1/1 SHEET 1 OF 1

SPECIFICATIONS

ELECTRICAL:

| | |
|--------------------|------------------|
| FREQUENCY: | (900-930) MHz |
| RADIATION PATTERN: | OMNI |
| POLARIZATION: | VERTICAL |
| VSWR: | < 2.0:1 |
| GAIN (dB): | >2.1 dBi |
| ELE. BEAM WIDTH: | 1 ELEMENT DIPOLE |
| AZ. BEAM WIDTH: | 360 deg. |
| IMPEDANCE: | 50 Ohms |
| POWER HANDLING: | 200 Watt |

MECHANICAL:

SIZE: BASE DIAMETER = 3.56 in. [90.5 mm], HEIGHT = 10.00 in. [254.0 mm]

WEIGHT: 1.681 lbs. (762 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-1.1L2-100

NMO Connector Option is Now Available for Some Antennas