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SPECIFICATIONS

| ELECTRICAL: | |
|--------------------|----------------------------|
| FREQUENCY (MHz): | (1610-1626) |
| GAIN (dBic) | |
| @ 90° (Zenith): | +1.9 |
| @ 10° Elevation: | 0.0 |
| @ 20° Elevation: | +0.9 |
| @ 30° Elevation: | +1.6 |
| @ 45° Elevation: | +2.0 |
| @ 70° Elevation: | +2.0 |
| BEAM WIDTH (3dB) | 170 Deg. |
| AXIAL RATIO (dB) | 1 to 3 |
| RADIATION PATTERN: | HEMISPHERICAL |
| POLARIZATION: | LHCP |
| VSWR: | < 1.5:1 |
| DC GROUNDING: | YES (LIGHTNING PROTECTION) |

| MECHANICAL: | |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SIZE: | DIAMETER = 3.50 in. [88.90 mm] HEIGHT = 4.690 in. [119.13 mm] |
| WEIGHT: | 5.15 oz. (146 g) |
| FINISH: | SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5441 |
| COLOR: | GLOSS WHITE #17925 PER FED-STD-595B LUSTERLESS GRAY #36320 PER FED-STD-595B OLIVE DRAB GREEN #34031 PER FED-STD-595B LUSTERLESS BLACK #37038 PER FED-STD-595B |
| MATERIAL: | 6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, AND SKYDROL RESISTANCE, FIRE RETARDANT |
| CONNECTOR: | TNC BULKHEAD CONNECTOR, (OPTION: TNC, SMA, N, N Bulkhead, MCX, MMCX, or Cable) |
| MOUNTING: | FLAT, OR FIXED PIPE (3/4"-1.0" Dia.) MOUNT (PROVIDED) |

| ENVIRONMENTAL: | |
|----------------|--------------------------------------|
| TEMPERATURE: | -67 °F TO +185 °F [-55 °C TO +85 °C] |
| ALTITUDE: | 70,000 ft. |
| VIBRATION: | > 30 G's |
| LEAKAGE: | HERMETICALLY SEALED |

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

| REVISIONS | | | |
|-----------|-------------|------|----------|
| ZONE | DESCRIPTION | DATE | APPROVED |
| | | | |

D

3X on 1.344 [34.12] Rad.
3X #3.500 [Ø88.90]
3X #.20 [Ø5.11]
✓ #.385 [Ø9.78] X 100°

C

B

4.550 [115.57]

0.57" [14.53] (TNC), 0.72" [18.29] (N, N-Bulkhead)
0.48" [11.68] (SMA), 0.83" [21.00] (TNC-Bulkhead)

NAMEPLATE

TNC BULKHEAD CONNECTOR
(OPTION: TNC, SMA, N, N Bulkhead, MCX, MMCX, or Cable)

Back Mounting:
3x 10-32 Screws
0.250" Deep Equally Space
on 1.375 [34.94] Radius

A

CONFIGURATION:

1: 2" SQ. (FLAT)
1.9: 1.9" SQ. (FLAT)
2: 2.6" DIA. (FLAT)
3: 3.5" DIA. (FLAT)
4: MINI ARINC (FLAT)
53: (HELIX ROD)
5B: (HELIX BLADE)
3D: (HELIX HANDHELD)

POLARIZATION:

LL: TX: LHCP, RX: LHCP
LR: TX: LHCP, RX: RHCP
RL: TX: RHCP, RX: LHCP
RR: TX: RHCP, RX: RHCP

LNA:

A1: WITH +34 dB LNA
P: WITHOUT LNA

CABLE'S LENGTH:

X: NO CABLE
M: WITH MAG. MOUNT
#: CABLE LENGTH (IN)
R: RIGHT ANGLE CON.

CONNECTOR:

S: SMA; P: PINS
M: MCX; MM: MMCX
N: N; NB: N-Bulkhead
T: TNC; TB: TNC-Bulkhead

COLOR:

-1: GLOSS WHITE #17925 PER FED-STD-595B
-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

QUANTITY

| QTY | DESCRIPTION | PART NO | FINISH | REF NO |
|-----|-----------------------------------|--------------|--------|--------|
| 4 | MOUNTING SCREW: (10-32, 1") | MS24693C276 | - | 5 |
| 1 | | | | 4 |
| 1 | ADHESIVE GASKET | 12345G-3M-3G | - | 3 |
| 1 | VERTICAL/HORIZONTAL ANTENNA MOUNT | MTR-2 | | 2 |
| 1 | OPTIONAL VERTICAL ANTENNA MOUNT | MTR-1 | | 1 |

PARTS LIST

NOTES: UNLESS OTHERWISE SPECIFIED:
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
2. ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

P/N: 53G16LL-P-XTB-1

ANTCOM CORP. TORRANCE CALIFORNIA

PIPE/FLAT MOUNT,
Tx Only GLOBALSTAR
HELIX ANTENNA

DATE: 30 DEC 03
DRAWN: S. HUYNH
CHECKED: S. HUYNH
DESIGNED: S. HUYNH
APPROVED: S. HUYNH
DEC-03-03

SCALE: 1/1

SHEET 1 OF 1

Antenna Mounts/Adapters: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>
NMO Connector Option is Now Available for Some Antennas