# 4 Channel IRIDIUM /Inmarsat Antenna
## (12” Dia. x 8.7” High), Flat/Pipe mount, P/N: 124IR16RR-P-XT-1

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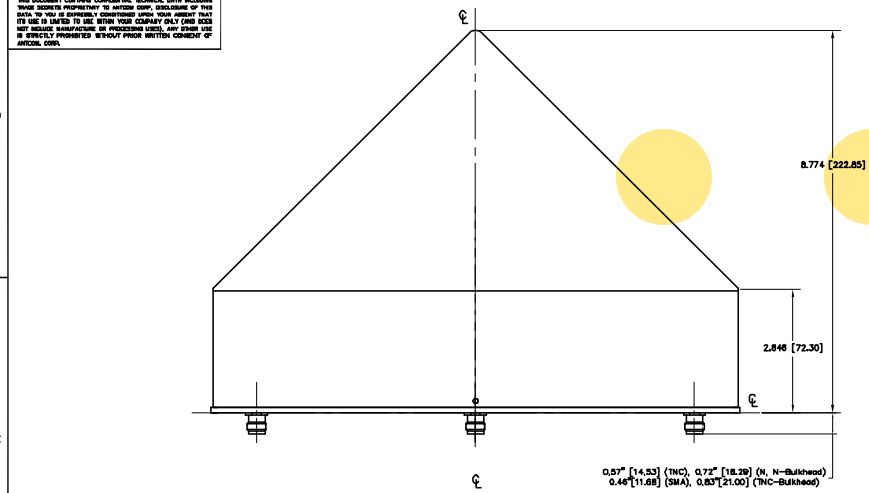
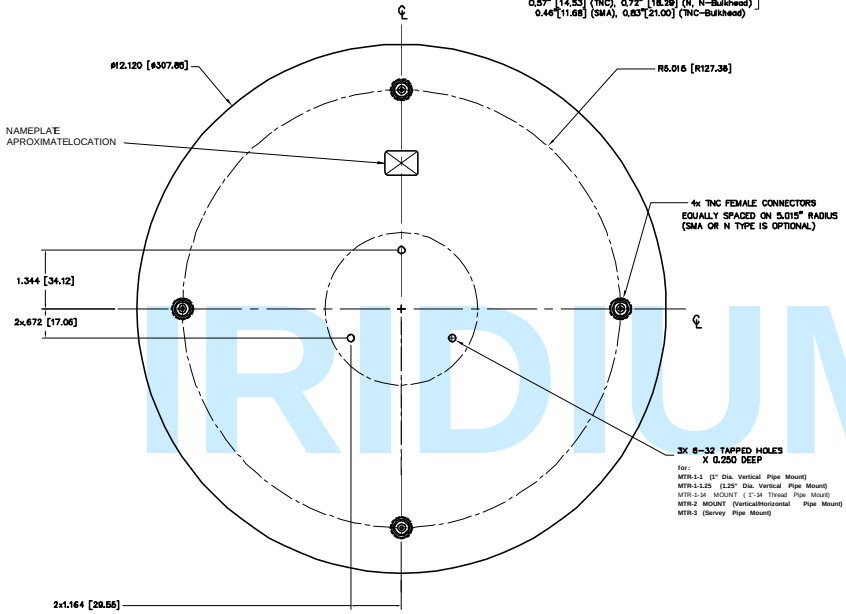
| REVISIONS | | | | |
|---|---|---|---|---|
| ZONE | REV | DESCRIPTION | DATE | APPROVED |
| | | | | |




P/N: 124IR16RR-P-XT-1

## SPECIFICATIONS

### ELECTRICAL:

| FREQUENCY (MHz): | (1575.42 ±13) | (1542.50 ±17.5) | (1642.50 ±17.5) | (1602-1616) | (1616-1626) |
|---|---|---|---|---|---|
| GAIN (dBic) | L1 GPS | Rx INMARSAT | Tx INMARSAT | GLONASS | IRIDIUM |
| @ 90° (Zenith): | +1.0 | 0.0 | -1.2 | +0.3 | -0.8 |
| @ 10° Elevation: | +0.3 | -0.8 | -0.7 | +0.5 | -0.4 |
| @ 20° Elevation: | +1.2 | +0.2 | +0.1 | +1.3 | +0.4 |
| @ 30° Elevation: | +1.8 | +1.0 | +0.4 | +1.4 | +0.7 |
| @ 45° Elevation: | +1.9 | +1.0 | +0.4 | +1.6 | +0.6 |
| @ 70° Elevation: | +1.5 | +0.4 | -1.0 | +0.8 | -0.2 |
| BEAM WIDTH (3dB) | 175 Deg. | 175 Deg. | 180 Deg. | 180 Deg. | 182 Deg. |
| AXIAL RATIO (dB) | 1 to 3 | 1 to 3 | 1 to 3 | 1 to 3 | 1 to 3 |
| RADIATION PATTERN: | HEMISPHERICAL | | | | |
| POLARIZATION: | RHCP | | | | |
| VSWR: | < 1.5:1 | | | | |
| DC GROUNDING: | YES (LIGHTNING PROTECTION) | | | | |

### MECHANICAL:

SIZE: DIAMETER: 12.120 in. [307.85 mm]
HEIGHT: 8.774 in. [222.85 mm]

WEIGHT: 4.5 lbs. (2.04 Kg)

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

CONNECTOR: TNC FEMALE (SMA, OR N TYPE IS OPTIONAL)

### 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

| QUANTITY REQD | | DESCRIPTION | PART NO | ITEM NO |
|---|---|---|---|---|
| | | PARTS LIST | | |
| 4 | – | | | 5 |
| 1 | 1 | | | 4 |
| 1 | 1 | | | 3 |
| 1 | 1 | | | 2 |
| 1 | 1 | RADOME | 12G1215-R-6 | 1 |
| -2 | -1 | | | |

| FREQ. BAND : | LNA : | CABLE'S LENGTH : | CONNECTOR : | COLOR : |
|---|---|---|---|---|
| 16: IRIDIUM | A: WITH LNA | X: NO CABLE | S: SMA; P: PINS | -1: GLOSS WHITE #17925 PER FED-STD-595B |
| | AL: WITH LNA/LIMITTER | M: MAG., N: NO MAG. | M: MCX; MM: MMCX | -2: LUSTERLESS GRAY #36320 PER FED-STD-595B |
| 1215: L1/L2 | P: WITHOUT LNA | #: CABLE LENGTH (IN) | N, NB: N, N-Bulkhead | -3: OLIVE DRAB GREEN #34031 PER FED-STD-595B |
| 15: L1 ONLY | | R: RIGHT ANGLE CON. | T, TB: TNC, TNC-Bulkhead | -4: LUSTERLESS BLACK #37038 PER FED-STD-595B |

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS ± 1/64 DECIMALS .XX± .015 .XXX± .005 ANGLES ± 1°
TOLERANCE SYM PER ANSI Y14.5
REMOVE ALL BURRS
BREAK EXTERNAL EDGES .000 TO .015
FILLETS R .000 TO R .030
SCREW THREADS PER MIL-S-8879
DATA ON A COMMON Ø .0"/.000
MACHINED SURFACES 125

DRAWN
CHECKED
ENGINEER
APPROVED S. HUYNH NOV-12-04
CAD FILE NO

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA

4 CHANNEL IRIDIUM/GPS/INMARSAT ANTENNA

SIZE D | CAGE NO 3CVE1 | DRAWING NO 124IR16RR-P-XT-1 | REV –

SCALE 1/1 | SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas