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IRIDIUM

P/N: S3IR16RR-P-XTB-1

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

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	(1610.0 - 1626.5) MHz
RADIATION PATTERN:	HEMISPHERICAL
POLARIZATION:	RHCP
VSWR:	< 1.5:1
GAIN (dB):	4 ft G.P. Free Space
@ 90° (Zenith):	+4.9 +5.7
@ 10° Elevation (Ave):	-1.0 -2.4
@ 20° Elevation (Ave):	+1.5 -0.1
@ 30° Elevation (Ave):	+2.4 +1.6
@ 45° Elevation (Ave):	+3.3 +3.0
@ 70° Elevation (Ave):	+4.7 +5.0
Beam Width (3dB):	129° 98°
AXIAL RATIO @ Zenith:	2.0 dB
IMPEDANCE:	50 Ohms
POWER HANDLING:	200 Watt
DC GROUNDING:	YES (LIGHTNING PROTECTION)

MECHANICAL:

SIZE: DIAMETER = 3.50 in. [88.90 mm]
 HEIGHT = 0.583 in. [14.81 mm]

WEIGHT: 5.15 oz. (.146 Kg)

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 D40C
 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 FIXED MOUNT; GASKET &
 4 x 10-32 MOUNTING SCREWS PROVIDED

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +65 °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

QUANTITY	DESCRIPTION	PART NO	MATERIAL	FINISH	REQ
	MOUNTING SCREWS: 10-32, 3/4"	MS24693C274	-	-	5
	ADHESIVE GASKET	123456-3M-3G	-	-	3
-2	-1	DESCRIPTION	PART NO	MATERIAL	FINISH

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
FRACTIONS: 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1
DECIMALS: .005, .010, .015, .020, .025, .030, .035, .040, .045, .050, .055, .060, .065, .070, .075, .080, .085, .090, .095, .100
TOLERANCE .5W PER ANSI Y14.3
BEFORE ALL DIMS
BREAK CHAMFER EDGES .005 TO .015
FAILETS .005 TO .010
CROSS THREADS PER ANSI B92.1
DIMS ON A COMMON EDGE .005
MACHINED SURFACES
DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

3.5" Dia. FLAT FIXED MOUNT
IRIDIUM APPROVED ANTENNA

APPROVED: S. HUYNH DATE: DEC-13-02

SCALE: 1/1 SHEET: 1 OF 1