



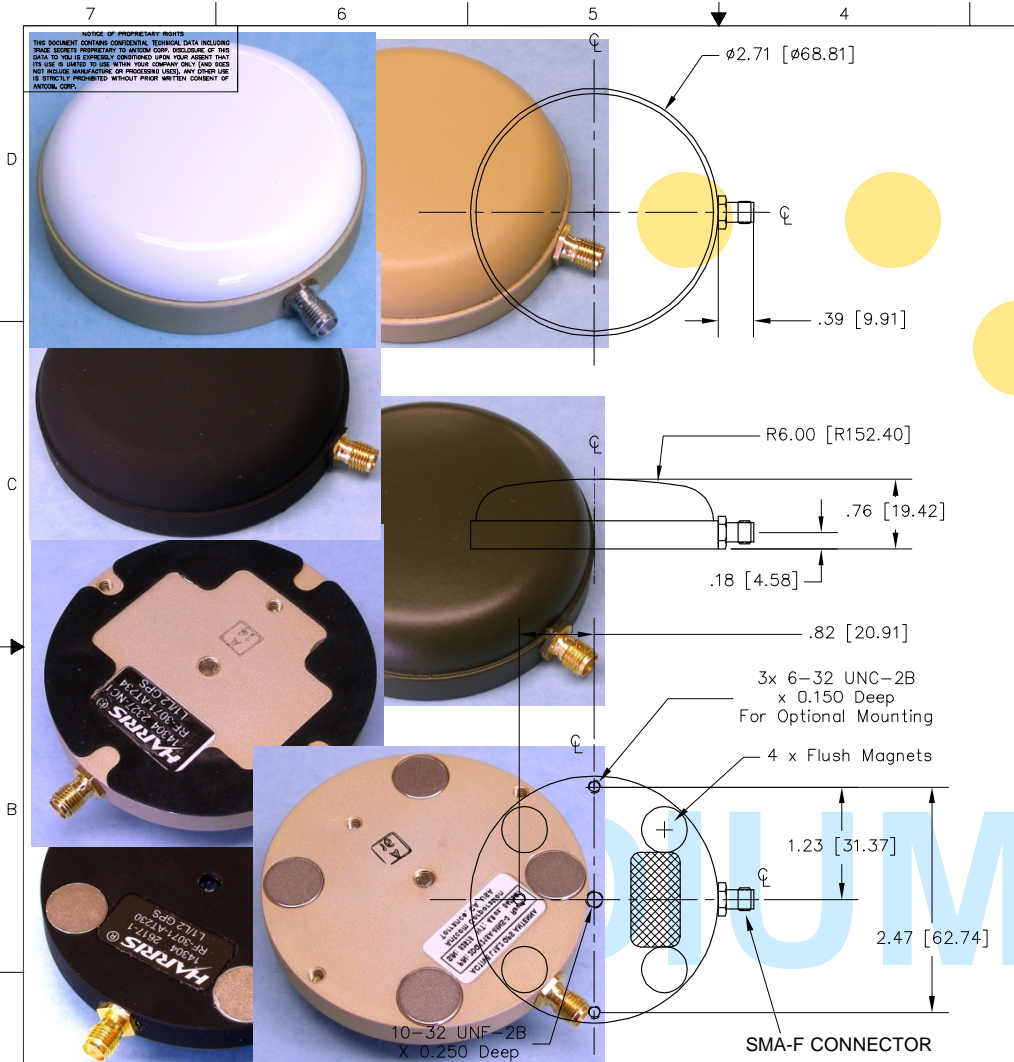
ISO 9001:2008/FAA Approved Facility

IRIDIUM Antennas, P/N: 2DIR16RR-P-MNS-X

2.7" Diameter, Flat/Flush Magnetic Mount Configuration



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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 +4.4
@ 10° Elevation (Ave):	-1.0 -2.6
@ 20° Elevation (Ave):	+1.5 -1.0
@ 30° Elevation (Ave):	+2.4 +0.4
@ 45° Elevation (Ave):	+3.3 +2.5
@ 70° Elevation (Ave):	+4.7 +4.0
Beam Width (3dB):	129° +106°
AXIAL RATIO @ Zenith:	2.0 dB
IMPEDANCE:	50 Ohms
POWER HANDLING:	200 Watt
DC GROUNDING:	YES (LIGHTNING PROTECTION)

MECHANICAL:

SIZE:	DIAMETER = 2.7 in. [69 mm] HEIGHT = 0.76 in. [19 mm]
WEIGHT:	5.15oz. (146g)
FINISH:	SKYDROLRESISTANTPOLYURETHANEENAMEL BASE IRIDITE PER MIL-C-5441
COLOR:	GLOSS WHITE #17925PER FED-STD-595B LUSTERLESSGRAY#36320PER FED-STD-595B OLIVE DRABGREEN#34031 PER FED-STD-595B LUSTERLESSBLACK#37038PER FED-STD-595B
MATERIAL:	6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT AND SKYDROL RESISTANCE, FIRE RETARDANT
CONNECTOR:	SMA FEMALE CONNECTOR (OPTION: SMA, N, TNC, N-Bulkhead, MCX, MMCX)
MOUNTING:	FLUSH MAGNETIC MOUNT

ENVIRONMENTAL:

TEMPERATURE:	-67 °F TO +185 °F [-55 °C TO +85 °C]
ALTITUDE:	70,000ft.
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
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SAE J1455

QUANTITY	DESCRIPTION	PART NO	MATERIAL	FINISH	ITEM NO
5	ADHESIVE GASKET	12345G-3M-3G	-	-	5
3					3
1					1

CONFIGURATION:	POLARIZATION:	LNA:	MOUNTING/CABLE	CONNECTOR	COLOR
1: 2" SQ. (FLAT)	LL: TX: LHCP, RX: LHCP	A1: WITH +34 dB LNA	X: BOTTOM CONNECTOR	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.8: 1.8" SQ. (FLAT)	LR: TX: LHCP, RX: RHCP	N: NO MAGNET	M: MCX; MM: MMCX	N: N; NB: N-Bulkhead	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.7" DIA. (FLAT)	RL: TX: RHCP, RX: LHCP	P: WITHOUT LNA	MN: WITH MAGNET	T: TNC; TB: TNC-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
3: 3.5" DIA. (FLAT)	RR: TX: RHCP, RX: RHCP	MN: WITH FLUSH MAGNET	G: WITH GLASS MOUNT		-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARINC (FLAT)		GM: GLASS MAGNETIC MOUNT			
53: (HELIX ROD)					
5B: (HELIX BLADE)					
3D: (HELIX HANDHELD)					

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS ANGLES ± 1/64 .005 .015 ± 1°

REVIEW ALL DIMENSIONS EXCEPT EDGES TO .015

DRIVER: _____

CHECKER: _____

DESIGNER: _____

APPROVED: G. HELVING APRIL-27-07

SCALE 1/1

SHEET 1 OF 1

ANTCOM CORP. TORRANCE, CALIFORNIA

2.7" Dia. Flat Flush Mag. Mount IRIDIUM ANTENNA

2DIR16RR-P-MNS-X

NMO Connector Option is Now Available for Some Antennas