



ISO 9001:2008/FAA Approved Facility

Antenna Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

IRIDIUM/GPS Ruggedized Antenna,

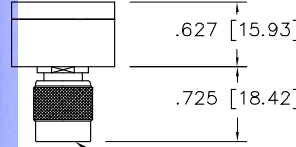
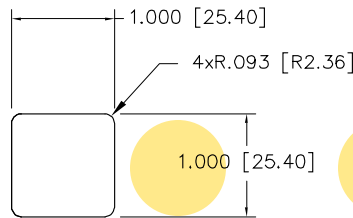
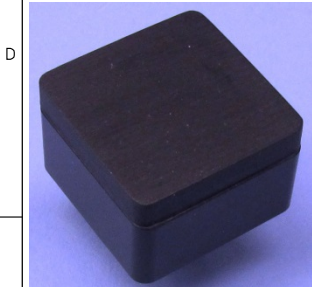
P/N: 1.0IR16RR-P-XTM-4 (TNC), P/N: 1.0IR16RR-P-XSM-4 (SMA)

1.0" Square, Back Mount Configurations for Handheld Applications

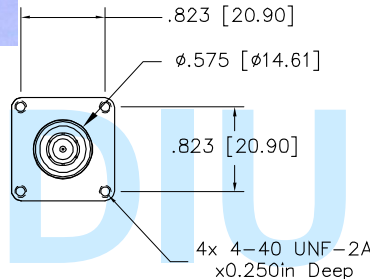


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TMC MALE
(OPTIONS: PIN, SMA, TNC-B, N, MCX, MMCX, SMB, SMC)



SIZE:	FREQ. BAND:	POLARIZATION:	LNA:	FILTER:
1: 2" SQ.	1625: Tx/Rx	LL: LHCP	A1: WITH +23 dB LNA	
1.5: 1.5" SQ.	25: 2493 MHz		A2: WITH +43 dB LNA	
2: 2.6" DIA.	16: 1616/1575 MHz		P: WITHOUT LNA	
3: 3.5" DIA.	15: 1575 MHz	RR: RHCP		
4: MINI ARINC				

P/N: 1.0IR16RR-P-XTM-4

CABLE LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA; P: PINS; M: MCX	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: WITH MAG. MOUNT	MM: MMCX; RMM: R-MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
R: CABLE LENGTH (IN)	N, NB: N, N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
RR: RIGHT ANGLE CON.	T, TB: TNC, TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

SPECIFICATIONS

	REVISIONS	
	ZONE	REV
ELECTRICAL:		
FREQUENCY:	IRIDIUM (1610.0 - 1626.5) MHz	GPS L1: (1575.42 ±13)
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	RHCP	
VSWR:	< 2.0:1	
GAIN (dB):	Free Space	
@ 90° (Zenith):	0.0	
@ 10° Elevation:	- 7.5	
@ 20° Elevation:	- 5.5	
@ 30° Elevation:	- 4.0	
@ 60° Elevation:	- 2.3	
BEAM WIDTH (3dB):	98 °-106 °	
AXIAL RATIO @ Zenith:	2 dB	
POWER HANDLING:	100 W	
LIGHTNING PROTECTION:	DC GROUNDING	
LNA GAIN:	N/A	
LNA P 1dB Out:	N/A	
LNA NOISE FIGURE:	N/A	
VOLTAGE/CURRENT:	N/A	

MECHANICAL:

SIZE: WIDTH: 1.00in. [25.4 mm], LENGTH: 1.00in [25.4 mm]
HEIGHT: 0.627in. [15.93 mm]
WEIGHT: 1.3 oz. (37 g)
FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL, AND CHEM FILM
MATERIAL: 6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, AND SKYDROL RESISTANCE, FIRE RETARDANT
CONNECTOR: TNC MALE (OPTIONS: PIN, SMA, TNC-B, N, SMB, SMC)

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, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

QUANTITY REQD	DESCRIPTION	PART NO	MATERIAL	FINISH	REV
4					5
1					3
1					1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DECIMALS	FRACTIONS	ANGLES
± 1/64	± .005	± 1/32	± 1°
TOLERANCE SIN PER ANSI Y14.5			
REMOVE ALL BURRS			
BREAK EDGES, RADIUS .005 TO .015			
FILED IN COG TO R .030			
SOFT DIMENSIONS PER ASME Y14.5-2005			
DATE ON A COMMON DATE			
MACHINED SURFACES			
DO NOT SCALE DRAWING			

ANTCOM CORP. TORRANCE, CALIFORNIA
Low Profile Ruggedized GPS/IRIDIUM Antenna
S. HUYNH
DEC-16-10
D 3CVE1 1.0IR16RR-P-XTM-4
SCALE 1/1
SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas