



ISO 9001:2008/FAA Approved Facility

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

IRIDIUM Antenna, P/N: S1.5IR16RR-P-MNSM-X

1.5" Square, Flushed Magnetic/Back Mount Configurations



ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501, USA . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . <http://www.antcom.com>

4xR.407 [R10.34]

1.562 [39.67] SQ.

.631 [16.03]

.180 [4.57]

.593 [15.06]

MOUNTING:
4X 2-56 UNF-2A
X 0.118 Deep

4x.593 [15.06]

OPTIONAL MOUNTING:
2-56 SCREWS, ADHESIVE GASKET,
HYSOL, OR RTV

FLUSH MAGNET

SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	(1610.0 - 1626.5) MHz		SEE PART NO. BELOW
RADIATION PATTERN:	HEMISPHERICAL		
POLARIZATION:	RHCP		
VSWR:	< 1.5:1		
GAIN (dB):	4 ft G.P.	2.6 in G.P.	
@ 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: LENGTH=1.54 in. [39.12 mm], WIDTH=1.54 in. [39.12 mm]
HEIGHT=0.631 in. [16.03 mm]

WEIGHT: 1.3 oz. (36.8 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: FEMALE SMA CONNECTOR WITH 36" CABLE
(OPTIONAL: MCX, MMCX, TNC, N , OR OTHER CONNECTOR)

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

ZONE	REV	DESCRIPTION	DATE	APPROVED
-	-	-	-	-
-	-	ADHESIVE GASKET	123456-3M-1.2G	-
-2	-1	DESCRIPTION	PART NO	SPECIFICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
FRACTIONS: DECIMALS: ANGLES
± 1/64 .005 .015 ± 1°
TOLERANCE 51M PER ANSI Y14.5
REVIEW ALL SURFACES
SEAL EXTERNAL EDGES .005 TO .015
USE 1/16" DIA. X 1/8" DEEP
SCREW THREADS PER MIL-S-8879
DIN 913 ON A COARSE PITCH
MACHINED SURFACES

ANTCOM CORP. TORRANCE, CALIFORNIA

1.5" SQ. FLUSHED MAGNETIC MOUNT IRIDIUM ANTENNA

DATE: 05/11/11
F00-26-07

DESIGNER: [Signature]
CHECKER: [Signature]
DRAWN: [Signature]

SCALE 1/1 SHEET 1 OF 1

TYPE	FREQ. BAND	POLARIZATION:	LNA:	FILTER
1: 2" SQ.	1625:Tx/Rx	LL: TX: LHCP, RX: LHCP	A1: WITH+23dB LNA	
1.5: 1.5" SQ.	25: 2493MHz	LR: TX: LHCP, RX: RHCP	A2: WITH+43dB LNA	
2: 2.6" DIA.	16: 1616MHz	RL: TX: RHCP, RX: LHCP	P: WITHOUTLNA	
3: 3.5" DIA.		RR: TX: RHCP, RX: RHCP		
4: MINIARC				

CABLE LENGTH: MN: FLUSH MAG. N: NO MAG. R: RIGHT ANGLE CON.

CONNECTOR: SM: SMA-M, S: SMA, RS: R-SMA, P: PINS, M: MCX, MM: MMCX, SMB: SSMA, SSMB, SSMC, SSMP, T: TB, TNC, TNC-Bulkhead L-RM: Right Angle Male Lemo

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

NOTES: UNLESS OTHERWISE SPECIFIED:

NMO Connector Option is Now Available for Some Antennas