



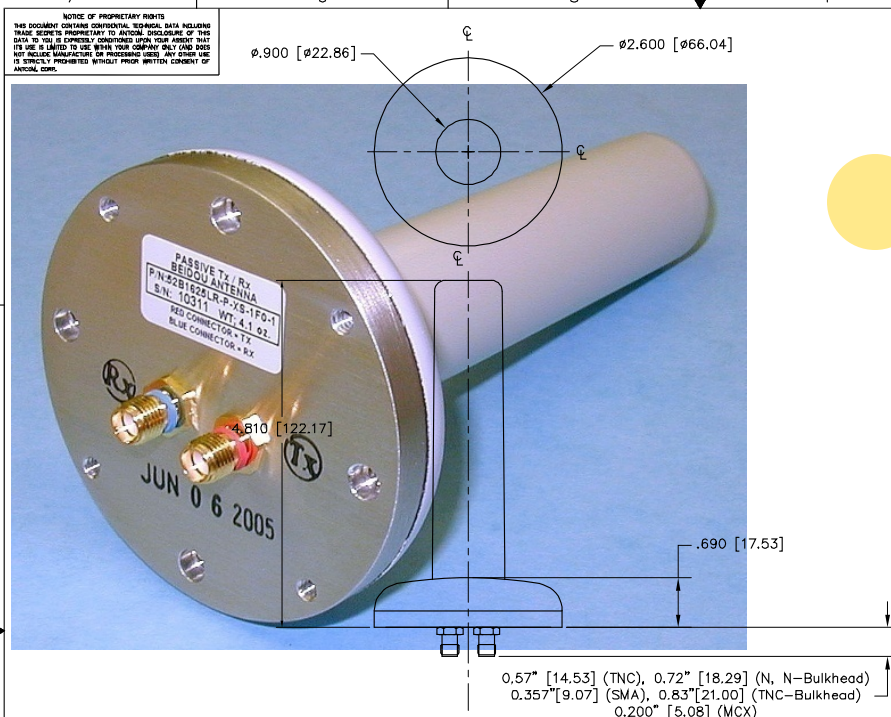
Iridium Helix / Active GPS Antenna, P/N: 52G1516RR-AP-XSS-X

2.6" Diameter x 4.8" Tall, Pipe/Flat Mount Configuration



ISO 9001:2008/FAA Approved Facility Antenna Mounts/Adapters: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

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>



SPECIFICATIONS

ELECTRICAL:	REVISIONS				
	ZONE	REV	DESCRIPTION	DATE	APPROVED
	A		Connector Options	Aug-12-10	S.H
			L1 GPS		(OPTIONAL)
FREQUENCY:	IRIDIUM	(1575.42 ±12) MHz	L2 GPS (OPTIONAL)	(1227.42 ±12)MHz	
RADIATION PATTERN:	HEMISPHERICAL				
POLARIZATION:	RHCP	RHCP	RHCP		
VSWR:	< 2.0:1	< 2.0:1	< 2.0:1		
GAIN (dBic):	Free Space	Free Space	Free Space		
@ 90° (Zenith, Top):	0.00	+ 5.00			
@ 10° Elevation:	+ 0.40	- 2.30			
@ 20° Elevation:	+ 1.10	- 0.90			
@ 30° Elevation:	+ 1.20	+ 0.70			
@ 45° Elevation:	+ 0.70	+ 1.90			
@ 70° Elevation:	+ 0.10	+ 4.20			
AXIAL RATIO @ Zenith:	2 dB	2 dB			
3dB BEAM WIDTH	190 °	90 °			
POWER HANDLING:	>30 W	1 Watt			
DC GROUNDING:	YES (LIGHTNING PROTECTION)				
FILTER REJ. : (824-894) MHz	> 70 dB		REJECTION @:		
(1610-1626.5) MHz	> 67 dB		(-50/+50) MHz: (-45/-70) dB		
(3220-3253) MHz	> 29 dB		(-100/+100) MHz: -65 dB		
(4830-4879.5) MHz	> 54 dB				

LNA OPTION:

LNA GAIN:	N/A	(33 +/- 1) dB
LNA NOISE FIGURE:	N/A	2.4 dB
LNA P1dB Out:	N/A	+13 dBm
LNA VOLTAGE:	N/A	(+2.5 to +30) Volts DC FROM Rx RF CON.
LNA DRAWING CURRENT:	N/A	< 30 mA

MECHANICAL:

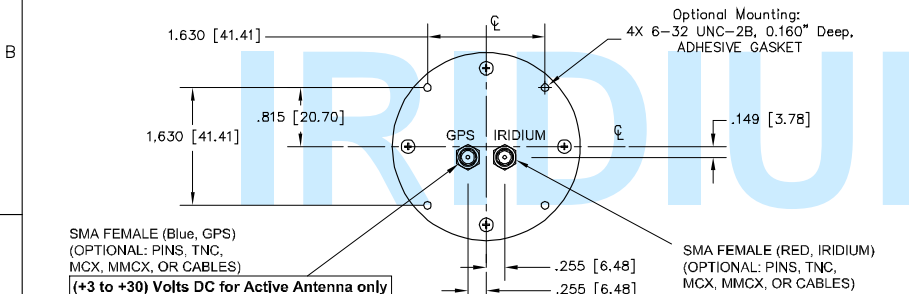
SIZE:	BASE DIAMETER: 2.600 in. [66.04 mm] HEIGHT: 4.810 in [122.17 mm]
WEIGHT:	5.15 oz. (146 g)
FINISH:	SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDIUM PER MIL-C-5441
MATERIAL:	6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, AND SKYDROL RESISTANCE, FIRE RETARDANT
CONNECTOR:	Tx (Red): SMA FEMALE, Rx (Blue): SMA FEMALE (OPTIONAL: PINS, TNC, MCX, MMCX, OR CABLE)

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



SMA FEMALE (Blue, GPS)
(OPTIONAL: PINS, TNC, MCX, MMCX, OR CABLES)
(+3 to +30) Volts DC for Active Antenna only

SMA FEMALE (RED, IRIDIUM)
(OPTIONAL: PINS, TNC, MCX, MMCX, OR CABLES)

CONFIGURATION:	POLARIZATION:	LNA for GPS:	CABLE'S LENGTH:	GPS/MOUNT CONNECTOR:	COLOR:
'1516: L1 GPS / L-BAND	LL: TX: LHCP, RX: LHCP	A: WITH +34 dB LNA	X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
'216: L1/L2 GPS / L-BAND	LR: TX: LHCP, RX: RHCP	A2: WITH +20 dB LNA	M: WITH MAG. MOUNT	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
	RL: TX: RHCP, RX: LHCP	P: WITHOUT LNA	#: CABLE LENGTH (IN)	N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
	RR: TX: RHCP, RX: RHCP		R: RIGHT ANGLE CON.	T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

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

P/N: 52G1516RR-AP-XSS-X

QUANTITY	DESCRIPTION	PART NO	FINISH	REV
1	ADHESIVE GASKET	123456-3M-2G	-	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DECIMALS	FRACTIONS	ANGLES
± 1/64	0.005	00/1000	± 1°

ANTCOM CORP.
2.6" DIA. BASE, 4.8" TALL, FIXED MOUNT
HELIX IRIDIUM/GPS ANTENNA

APPROVED: S. HUYNH
June-18-05

SCALE 1/1

NMO Connector Option is Now Available for Some Antennas