Passive Iridium Antenna

P/N: 1.2IR16RR-P-XS-2-NF

(1.0” Square x .547” High). Other Frequencies, Colors and Connectors are Available

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

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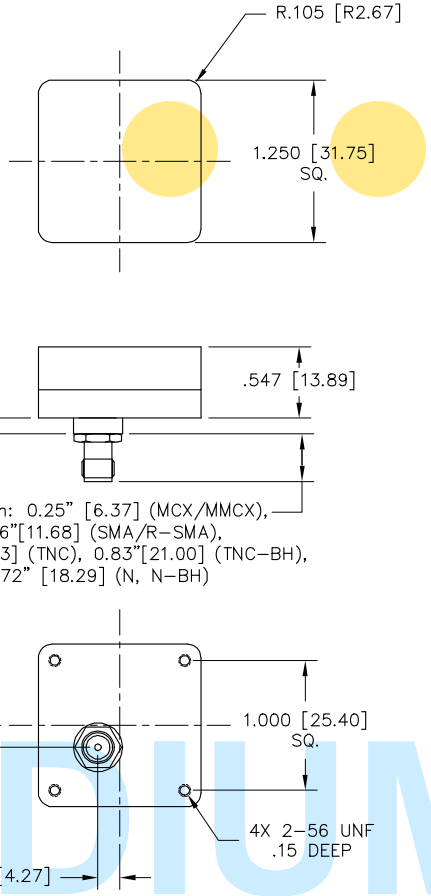

SPECIFICATIONS

ELECTRICAL:

	IRIDIUM	
FREQUENCY:	(1610.1 - 1626.5) MHz	
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	RHCP	
VSWR:	< 2.0:1	
IMPEDANCE:	50 ohms	
ANTENNA GAIN (dBic):	Free Space	3 in G.P.
@ 90 ° (ZENITH):	- 0.8	+ 3.8
@ 10 ° Elevation:	- 9.3	- 4.3
@ 20 ° Elevation:	- 6.8	- 2.2
@ 30 ° Elevation:	- 5.2	- 0.7
@ 60 - 90 ° Elevation:	> - 2.1	> 2.5
BEAM WIDTH (3dB):	100 Deg.	120 Deg.
AXIAL RATIO:	2 dB	
LIGHTNING PROTECTION:	DC GROUNDING	

MECHANICAL:

SIZE: 1.250 in.[31.75 mm] SQ.
HEIGHT: 0.547 in. [13.89 mm]
WEIGHT: 1.4 oz. (39.2 g)
FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDITE PER MIL-C-5441F, TYPE II CLASS 3
MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
COMPOSITE RADOME, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT
CONNECTOR: SMA FEMALE
(OPTION: SMB, SMC, SMP, SSMB, SSMC, SSMP)

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

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

IRIDIUM

SIZE:	FREQ. BAND:	LNA:
1: 2” SQ.	1215: L1/L2	A: WITH 30 dB LNA
1.9: 1.9” SQ.	15: L1 ONLY	A2: WITH 20 dB LNA
2: 2.6” DIA.	16: IRIDIUM	A4: WITH 40 dB LNA
3: 3.5” DIA.		P: PASSIVE (WITHOUT LNA)
4: MINI ARINC		

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CABLE'S LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA, T: TNC	-1: GLOSS WHITE #17925 PER FED-STD-595B
#: CABLE LENGTH (IN)	MM: MMCX, SMB, SMC, SSMA, SSMB, SSMC, SMP: SSMP, HFL	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
		-3: CAMO GREEN #34094 PER FED-STD-595B
		-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
		-5: TAN #33446 PER FED-STD-595B

1. DIMENSIONS IN BRACKETS ARE IN ARE IN MILLIMETERS [MM]

NOTES: UNLESS OTHERWISE SPECIFIED:

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	–	–	–	–

QUANTITY REQD	–2	–1	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO.
1								2
1			ADHESIVE GASKET	12345G–3M–1.2G	–	–	–	1

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS ± 1/64, DECIMALS .XX± .015, .XXX± .005, ANGLES ± 1°
TOLERANCE SYM PER ANSI Y14.5
REMOVE ALL BURRS. BREAK EXTERNAL EDGES .005 TO .015. FILLETS R .005 TO R .030. SCREW THREADS PER MIL-S-8879. DIA'S ON A COMMON Ø .005
MACHINED SURFACES 125
DO NOT SCALE DRAWING

ORIGINALLY DRAWN	S. HUYNH	Mar–11–05
ORIGINALLY DESIGNED	S. HUYNH	Mar–11–05
UPDATED	S. HUYNH	July–24–14
UPDATE DRAWN	P. TRAN	July–24–14
APPROVED	S. HUYNH	July–24–14

ANTCOM CORP. TORRANCE CALIFORNIA

PASSIVE IRIDIUM ANTENNA

SIZE	CAGE NO	DRAWING NO	REV
D	3CVE1	1.2IR16RR–P–XS–2–NF	–

SCALE 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas