



FAA Approved Facility

L1L2 GPS/GLONASS, IRIDIUM, and UHF Tri-band Antenna

P/N: 13IRL1L20.25RV-PAP-XTB3-4

Other Frequencies, Connectors and Colors are Also Available

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



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SPECIFICATIONS

ELECTRICAL:

FREQUENCY (MHz):	(1227.60 ±15)	(1542.50 ±17.5)	(1575.42 ±15)	(1602-1616)	(1610-1626)	(1642.50 ±17.5)	(240-270)
GAIN (dBic) in FS	L2 GPS	Rx L-Band	L1 GPS	GLONASS	IRIDIUM	Tx INMARSAT	UHF
@ 90° (Zenith):	0.0	- 5.4	- 4.2	- 3.0	- 3.0	- 3.8	- 2 dBil
@ 10° Elevation:	-2.4 to -6.3	- 5.5	- 4.3	- 3.3	- 3.1	- 3.9	
@ 20° Elevation:	-1.8 to -4.8	- 4.2	- 3.0	- 2.0	- 1.8	- 2.6	
@ 30° Elevation:	-1.3 to -3.4	- 3.5	- 2.3	- 1.3	- 1.1	- 1.9	
@ 45° Elevation:	-0.5 to -1.5	- 3.5	- 2.3	- 1.3	- 1.1	- 1.9	
@ 70° Elevation:	0.0 to -0.5	- 4.8	- 3.6	- 2.6	- 2.4	- 3.2	
AXIAL RATIO (dB)	1 to 2						
RADIATION PATTERN:	HEMISPHERICAL						OMNIDIRECTIONAL
POLARIZATION:	RHCP						VERTICAL
VSWR:	< 1.5:1						2.5:1
DC GROUNDING:	YES (LIGHTNING PROTECTION)						

MECHANICAL:

SIZE: DIAMETERS = 1.36in [35mm], 2.6in [64mm]
 HEIGHT = 12.824 in. [325.7 mm]

WEIGHT: 12.5 oz. (354.4 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: TNC BULKHEAD CONNECTOR,
 (OPTION: TNC, SMA, N, N Bulkhead, BNC)

MOUNTING: FLAT, OR FIXED PIPE (3/4"-1.0" Dia.) MOUNT (PROVIDED)

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]

ALTITUDE: 70,000 ft.

VIBRATION: > 30 G's

WIND SPEED: > 135 Miles/hr

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 SAE J1455

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CONFIGURATION:

1: 2" SQ. (FLAT)
1.8: 1.8" SQ. (FLAT)
2: 2.6" DIA. (FLAT)
3: 3.6" DIA. (FLAT)
4: MINI ARINC (FLAT)
5: (HELIX ROD)
5B: (HELIX BLADE)
3D: (HELIX HANDHELD)
91: (HELIX Sextant Port)

FREQUENCY:	L1: IRIDIUM	L2: L1L2 GPS	0.25; UHF(240-270) MHz
POLARIZATION:	LL: LHCP, RX: LHCP	LR: LHCP, RX: RHCP	RL: RHCP, RX: LHCP
LN#:	A1: WITH +34 dB LNA	P: WITHOUT LNA	
CONNECTOR:	S: SMA; P: PINS	M: MCX; MM: MMCX	N: N; NB: N-Bulkhead
COLOR:	-1: GLOSS WHITE #17925 PER FED-STD-595B	-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: DESERT TAN #33446 PER FED-STD-595B	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS DECIMALS ANGLES

± 1/64 .001 .005 ± 1°

TOLERANCE SHOWN PER ANSI Y14.5

REMOVE ALL SURFS BREAK EXTERNAL EDGES .005 TO .010 FILED & .005 TO .010 POLISHED PER MIL-STD-883C DIA'S ON A COMMON SURF

MACHINED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

Sextant Port
 L1L2 GPS/GLONASS/
 IRIDIUM/UHF HELIX ANTENNA

QUANTITY REQD	DESCRIPTION	PARTS LIST	PART NO	FINISH	NEW
1					1
-1					

DATE: 12/17/14
 DRAWN: S. HUYNH
 CHECKED: P. TRAN
 APPROVED: S. HUYNH

SCALE: 1/1

SHEET 1 OF 1