



FAA Approved Facility

New Embedded High Gain Array Rx/Tx-Thuraya or Inmarsat/Iridium Antenna,

P/N: G7-3GL1RxTxT-P-XS-X (LHCP, Thuraya)

P/N: G7-3GL1IN-P-XS-X (RHCP, Inmarsat/Iridium)

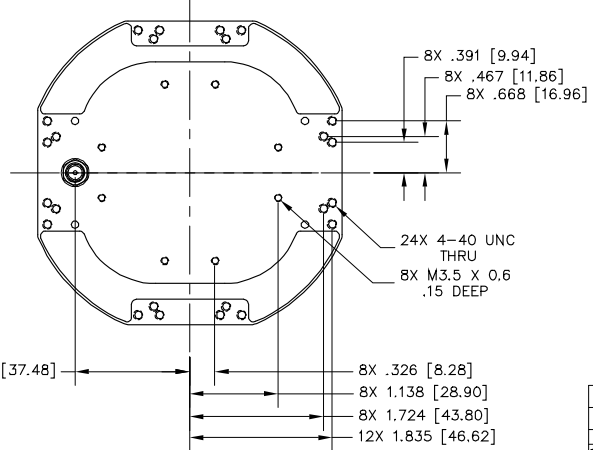
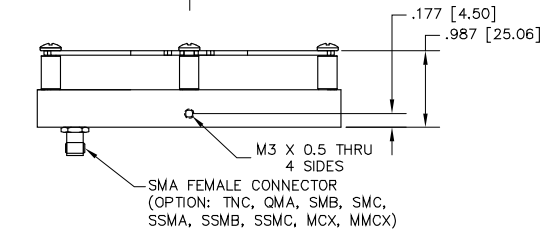
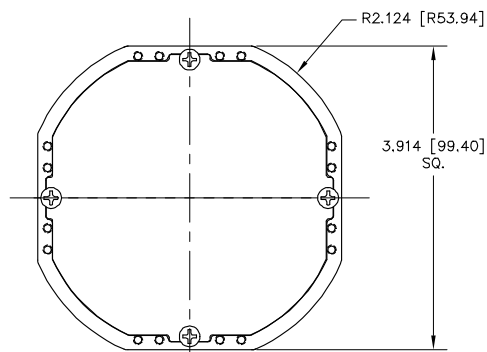
For Mechanically Steered Array Antenna

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



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P/N: G7-3GL1RxTxT-P-XS-X

SPECIFICATIONS

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
A		HOLLOWED BOTTOM FOR WEIGHT REDUCTION	02/19/14	S.H.

ELECTRICAL:	Rx Inmarsat OmniStar, L6 Galileo, B1 Compass (RHCP) or Rx-Thuraya (LHCP).	L1 GPS, E1, E2 Galileo, L1 IRNSS (RHCP)	Tx-Inmarsat (RHCP) or Tx-Thuraya (LHCP)
	FREQUENCY:	(1542.5 ± 17.5) MHz	(1575 ± 17) MHz
RADIATION PATTERN:	HEMISPHERICAL		
VSWR:	< 1.5:1	< 1.5:1	< 1.5:1
IMPEDANCE:	50 ohms	50 ohms	50 ohms
ANTENNA GAIN (dBic):	6dBic	6dBic	6dBic
BEAM WIDTH (3dB):	65 Deg.	65 Deg.	65 Deg.
AXIAL RATIO:	1 dB		
LIGHTNING PROTECTION:	DC GROUNDING		

MECHANICAL:

SIZE: WIDTH: 3.91in. [99 mm], LENGTH: 8.19in. [208 mm], HEIGHT: .987in. [25.1 mm]

WEIGHT: 4.6oz. (130g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5541F

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT

CONNECTOR: SMA FEMALE TNC, QMA, SMB, SMC, SSMA, SSBM, SSMC, MCX, MMCX)

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:

DO-160D, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE:

ATP-GPS-L1L2-100

1	2
1	1
QUANTITY REQD	PARTS LIST
DESCRIPTION	PART NO

Frequency:	M: FLUSH MAGNET	GPS/Rx LNA OPTION:	CONNECTOR:	COLOR:
L1RxTx; L1+RxTx Inmarsat/Iridium (RHCP)	M: BIG NON-FLUSH MAGNET	A: WITH LNA	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
L1RxTx; L1+RxTx Thuraya (LHCP)	#: CABLE LENGTH (IN)	P: WITHOUT LNA	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
L1RxTx; L1+Rx Inmarsat/Iridium (RHCP)			N: N; NB: N-Bushhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
L1RxTx; L1+Rx Thuraya (LHCP)			T: TNC; TB: TNC-Bushhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
RxTxInT; RxTx Inmarsat (RHCP)/Thuraya (LHCP)				

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS TO DECIMALS ANGLES ± 1/64 .004 .005 ± 1'

TOLERANCE ±.01 PER ANSI Y14.5 FINISH ALL SURFACES BEZEL EXTERNAL EDGES .005 TO .015 PER MIL-STD-883C METHOD 2000.19.2.2 SCREEN FINISH PER MIL-STD-883C METHOD 2000.19.2.2 MACHINED SURFACES 75

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

Rx/Tx- Thuraya L1 GPS Antenna

DESIGN: D13CVE1 PART NO: G7-3GL1RxTxT-P-XS-X SCALE: 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas