



FAA Approved Facility

L1 Glonass + L1 GPS + OmniStar/ TerraStar Antenna

P/N: 1.5GG3P-XS-X-R-040

Other Connector and Color Options Are Available



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MECHANICAL:

SIZE: 1.57in Square
HEIGHT= 0.596 in. [15.14 mm]
WEIGHT: 2.1 oz. (59.5 g)
FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDITE PER MIL-C-5441F
MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, AND SKYDROL RESISTANCE, FIRE RETARDANT
CONNECTOR: FEMALE SMA CONNECTOR (OPTION: MCX, SMA, SMB, SSMA, SSMB, SSMC, OR TNC)

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: MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455
FAA TSO-C144, DO-160D, DO-228, MIL-C-5541.

SPECIFICATIONS

	OmniSTAR / L-Band		L1 GPS		L1 GLONASS	
	L6 Galileo	B1 Compass	E1, E2 Galileo	L1 IRNSS		
FREQUENCY:	1542.50 ± 14.0 MHz	1542.50 ± 5.0 MHz	1575.42 ± 15.0 MHz	1575.42 ± 17.0 MHz	1609 ± 7.0 MHz	
RADIATION PATTERN:	HEMISPHERICAL					
POLARIZATION:	RHCP		RHCP		RHCP	
VSWR:	< 2.0:1		< 2.0:1		< 2.0:1	
IMPEDANCE:	50 ohms		50 ohms		50 ohms	
ANTENNA GAIN (dBic):	Free Space	5in G.P	Free Space	5in G.P	Free Space	5in G.P
@ 90 ° (ZENITH):	+ 1.9	+ 1.0	+ 4.1	+ 3.2	+ 2.0	+ 2.6
@ 10 ° Elevation:	- 5.0	- 5.7	- 2.8	- 3.2	- 5.1	- 4.2
@ 20 ° Elevation:	- 3.9	- 3.9	- 1.9	- 1.6	- 4.1	- 2.6
@ 30 ° Elevation:	- 2.6	- 3.0	- 0.4	- 0.6	- 2.6	- 1.4
@ 60 - 90 ° Elevation:	> + 0.8	> + 0.2	> 2.9	> + 2.5	> + 0.8	> + 1.8
BEAM WIDTH (3dB):	95 Deg.	97 Deg.	95 Deg.	100 Deg.	95 Deg.	100 Deg.
AXIAL RATIO:	1 dB	1 dB	1 dB	1 dB	2 dB	2 dB
LIGHTNING PROTECTION:	DC GROUNDING					
LNA GAIN:	33 dB		32 dB		31 dB	
LNA NOISE FIGURE:	3.0 dB		3.0 dB		3.0 dB	
LNA P1dB Out:	+13 dBm		+13 dBm		+13 dBm	
LNA DC POWER:	2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24)V/<50mA					
POWER HANDLING:	1 Watt CW, Optional: 10 Watts 1 Microsec Pulse (-AL-)					

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LNA:	LNA:	CONNECTOR:	COLOR:
1: 2" SQ.	A: WITH LNA	S: SMA; B: BNC	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.9: 1.9" SQ.	P: WITHOUT LNA	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA.		N: N; NB: N-Bulkhead	-3: CAMO GREEN #34094 PER FED-STD-595B
3: 3.5" DIA.		T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARINC			-5: DESERT TAN #33446 PER FED-STD-595B

QUANTITY	REQD	DESCRIPTION	PART NO	MATERIAL	FINISH	REV
1		O-RING	AS568A-029 (Item 553-029)	-	-	1
-2	-1					

ANTCOM CORP. TORRANCE CALIFORNIA

1.5in Square
L1 Glonass + L1 GPS
+ OmniStar G3 ANTENNA

SCALE 1/1

SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas