



FAA Approved Facility

Antcom's Active G3 L1 Glonass + L1 GPS + OmniStar/TerraStar Antenna

P/N: G3Ant-2.75X2.75A2-XSMB-X-OEM2

OEM Version on 2.75in Square Ground Plane for Automotive Applications

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



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SPECIFICATIONS

ELECTRICAL:

	OmniSTAR / L-Band L6 Galileo B1 Compass	L1 GPS E1, E2 Galileo L1 IRNSS	L1 GLONASS (1598 - 1606) MHz
FREQUENCY:	1542.50 ± 14.0 MHz 1542.50 ± 5.0 MHz 1561.096 ± 10 MHz	1575.42 ± 15.0 MHz 1575.42 ± 17.0 MHz 1575.42 ± 12.0 MHz	
RADIATION PATTERN:			
POLARIZATION:	RHCP	RHCP	RHCP
VSWR:	< 2.0:1	< 2.0:1	< 2.0:1
IMPEDANCE:	50 ohms	50 ohms	50 ohms
ANTENNA GAIN (dBi):			
@ 90° (ZENITH):	+ 1.2	+ 4.1	+ 3.0
@ 10° Elevation:	- 7.4	- 4.5	- 5.8
@ 20° Elevation:	- 5.8	- 2.9	- 4.1
@ 30° Elevation:	- 4.1	- 1.2	- 2.4
@ 60 - 90° Elevation:	> - 0.3	> + 1.6	> + 1.6
BEAM WIDTH (3dB):	75 Deg.	80 Deg.	80 Deg.
AXIAL RATIO:	1 dB	1 dB	1 dB
LIGHTNING PROTECTION:		DC GROUNDING	
LNA GAIN:	27 dB		27 dB
LNA NOISE FIGURE:	2.8 dB		2.8 dB
LNA P1dB OUT:	+13 dBm	+13 dBm	+13 dBm
LNA DC POWER:	(2.5 - 24)V @ <12mA		
POWER HANDLING:	1 Watt CW, Optional: 10 Watts 1 Microsec Pulse (-AL-)		

MECHANICAL:

SIZE: 2.75 in [69.85 mm] SQ.
 HEIGHT: 0.512in [13.00 mm]
 WEIGHT: < 3.2 oz. (90 g)
 FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
 BASE IRIDITE PER MIL-C-5541F CLASS 1A
 MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
 COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT
 CONNECTOR: CABLE/SMB-M FAKRA H CONNECTOR
 (OPTION: SMA, SMB, QMA, SSMC, SSMB, MMCX)

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +221 °F [-55 °C TO +105 °C]
 70,000 ft.
 VIBRATION: > 30 G's
 HERMETICALLY SEAL

FEDERAL & MILITARY SPECIFICATIONS:

SAE J1455 (AUTOMOTIVE), DO-160D (ENV/EMI), DO-228 (ENV/EMI), MIL-C-5541F, MIL-PRF-39012 (CONN), MIL-STD-810G (ENV/EMI), MIL-HDBK-5400 (ELEC), MIL-STD-464C (ELEC MAG), MIL-STD-130N-1 (ID), MIL-STD-889B (METAL), RCC-319-14 (TERMINATION), RCC-324-01(SAFETY), FAA TSO-C144, MIL-STD-1472 (DOD), MIL-145208A, AND NAS411-1 (HAZ)

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

P/N: G3Ant-2.75X2.75A2-XSMB-X-OEM2

SIZE:	LNA:	CABLE'S LENGTH:	CONNECTOR:	COLOR:
1: 2" SQ.	42: ARINC 743	X: NO CABLE	U: L: U: FL	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.5: 1.5" SQ.	A2: WITH 27dB LNA		S: SMA/M: SMB: B: BNC	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.75X2.75" SQ.	A4: WITH 43 dB LNA		M: MMCX: M: M: MMCX: MMCX: MMCX: R	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
2: 2.6" DIA.	P: WITHOUT LNA		S: SMA, SMC, SSMB, SSMC	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
3: 3.5" DIA.				-5: TAN #33446 PER FED-STD-595B

QUANTITY REQD	DESCRIPTION	PARTS LIST	PART NO	FINISH	REV
					2
					1

ANTCOM CORP. TORRANCE, CALIFORNIA

OEM Version on 2.75in SQ. Ground Plane
 L1GLonass/L1GPS/OmniStar
 G3 ANTENNA (RoHS)

DATE: 3CPE1
 SCALE: 1/1
 SHEET: 1 OF 1