



Antcom's **G3 Antenna**, **Active L1 Glonass + L1 GPS + OmniStar Antenna, P/N: G3Ant-5A5MMRX** **OEM Version on 5in Dia. Ground Plane** (with Filters, better RTK Performance, Optimized for L1 Glonass & L1 GPS & OmniStar)



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6x ϕ .102 [ϕ 2.59] Thru.
 60° Apert on
 ϕ 4.646 [ϕ 118.00]

ϕ 4.960 [ϕ 125.98]

3.4in [86mm]

4.85in [123mm]

2x2.080 [52.83]

4xR.780 [R19.81]

8-32 Thread,
 0.223\"/>

NAME PLATE

4X 4-40 Thread
 X 0.155 Deep

.300 [7.62]

.310 [7.87]

.030 [0.76]

SPECIFICATIONS

ELECTRICAL:

ZONE	REV	DESCRIPTION	DATE	APPROVED

REVISIONS		
ZONE	REV	DESCRIPTION

FREQUENCY:	OmniSTAR / L-Band	L1 GPS	L1 GLONASS
	L0 Galileo B1 Compass	E1, E2 Galileo L1 IRNSS	L1 IRNSS
	1542.50 ± 14.0 MHz	1575.42 ± 15.0 MHz	1609 ± 7.0 MHz
	1542.50 ± 5.0 MHz	1575.42 ± 17.0 MHz	
	1561.098 ± 10 MHz	1575.42 ± 12.0 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):			
@ 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	> +2.6	> +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:	33 dB	33 dB	33 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-)		

MECHANICAL:

SIZE: DIAMETER: 4.96 in. [126 mm]
 HEIGHT: 0.3in [7.62mm] Above Ground Plane

WEIGHT: 3.9 oz. (111g)

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: 5in CABLE WITH MMCX RIGHT ANGLE MALE
 (OPTION: SMA, SMB, TNC, BNC, N, MCX, MMCX)

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]
 70,000 ft.

VIBRATION: > 30 G's
 HERMETICALLY SEAL

FEDERAL & MILITARY SPECIFICATIONS:

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

QUANTITY	RECD	DESCRIPTION	PART NO	FINISH	ITEM NO
					5
					4
1		5.0" DIA. GROUND PLANE	12G1215P001-B2Gb	-	3
					2
1		5/8"-11 Mount (Optional)	MTR-3B-G5	-	1

ANTCOM CORP. TORRANCE, CALIFORNIA

OEM Version on 5in Ground Plane,
 L1 Glonass/L1 GPS/OmniStar
G3 ANTENNA (RoHS)

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 FRACTIONS DECIMAL ANGLES
 \pm 1/64 .015 .015 \pm 1°

TOLERANCE \pm .010 PER ANSI Y14.5
 BREAK ALL DIMS
 BREAK EXTERNAL EDGES .005 TO .010
 FILLS IN .005 TO .010
 SREW THREADS PER UN-5-8879
 DITS ON A COMMON S. OF .005
 MACHINED SURFACES

DO NOT SCALE DRAWING

SIZE:	LNA:	CABLE'S LENGTH:	CONNECTOR:	COLOR:
1: 2" SQ.	42: ARINC 743	A: WITH LNA	S: SMA; SMB; SMBR; B: BNC	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.9: 1.9" SQ.	52: 2.6" DIA. ON 5" GROUND PLANE	P: WITHOUT LNA	M: MCX; MM; MMCX; MMR; MMCX-R	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA.	72: 7" DIA. CHOKER RING		N: N; NB; N-Bulkhead	-3: OLIVE DRAB GREEN #34094 PER FED-STD-595B
3: 3.5" DIA.	5: Bare on 5in [126mm] Dia. Ground Plane		T: TNC; TB; TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARINC	X.X: Bare on X.Xin Dia. Ground Plane		SMC; SSMC; SSMB; SSMA	

APPROVED: S. HUYNH Mar-24-09

SCALE: 1/1

SHEET 1 OF 1

P/N: G3Ant-5A5MMRX Connector/Cable