Antcom's G5 Antenna,

Active L1/L2 Glonass + L1/L2 GPS + OmniStar/TerraStar Antenna, P/N: G5Ant-5AM-X Rev A

OEM Version on 5in Dia. Ground Plane

(with Filters, better RTK Performance, Optimized for L1/L2 Glonass & L1/L2 GPS & OmniStar/TerraStar)

FAA Approved Facility

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

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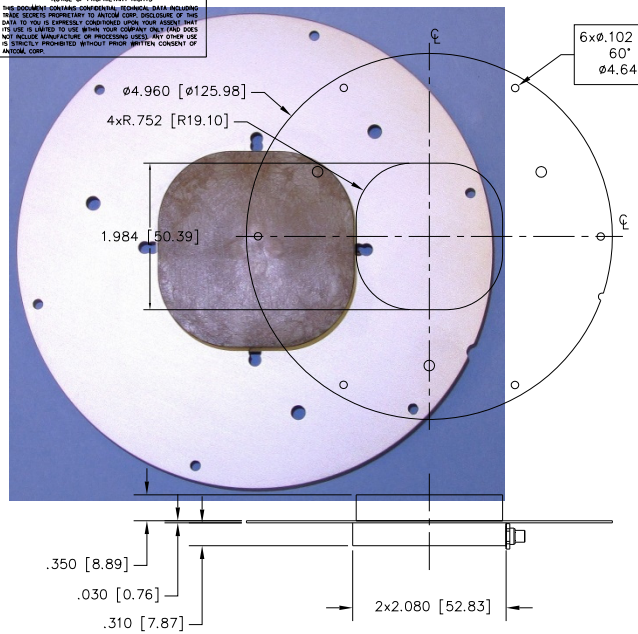
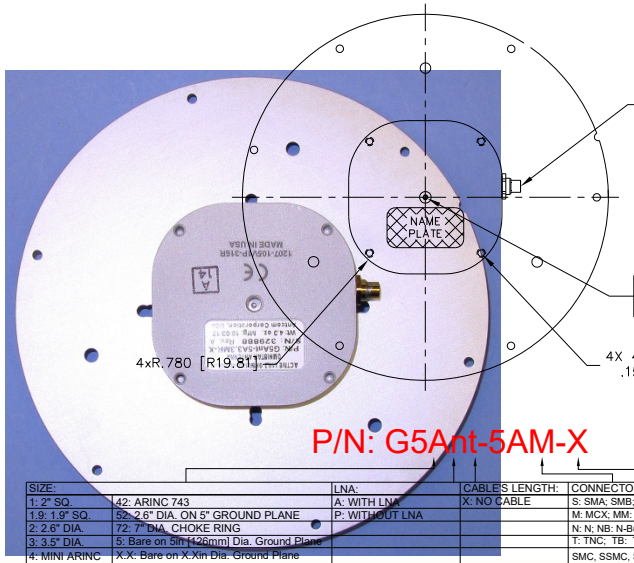
"-HF" for High Iridium/Inmarsat/Thuraya-Rejection Front End Filter Option: -22dB@1616MHz, -34dB@(1625-1660)MHz
"-HFO" for Additional OmniStar/TerraStar Rejection: -27dB@1545MHz





P/N: G5Ant-5AM-X

SIZE:		LNA:	CABLES LENGTH:	CONNECTOR:	COLOR:
1: 2" SQ.	42: ARINC 743	A: WITH LNA	X: NO CABLE	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. CHOKE 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	

SPECIFICATIONS

ELECTRICAL:

	L5 GPS E5, E5a, E5b Galileo L5 IRNSS	L2 GPS B2 Compass	L2 GLONASS E6 Galileo B3 Compass	OmniSTAR / L-Band L6 Galileo B1 Compass	L1 GPS E1, E2 Galileo L1 IRNSS	L1 GLONASS
FREQUENCY:	1176.45 ± 12 MHz 1164.45 - 1219.14 MHz 1176.45 ± 15 MHz	1227.60 ± 12 MHz 1207.14 ± 10 MHz	1252.50 ± 7.5 MHz 1266.75 - 1290.75 MHz 1268.52 ± 10 MHz	1542.50 ± 14.0 MHz 1542.50 ± 5.0 MHz 1561.098 ± 10 MHz	1575.42 ± 15.0 MHz 1575.42 ± 17.0 MHz 1575.42 ± 12.0 MHz	(1598 - 1606) MHz
RADIATION PATTERN:		HEMISPHERICAL				
POLARIZATION:	RHCP	RHCP	RHCP	RHCP	RHCP	RHCP
VSWR:	< 2.0:1	< 2.0:1	< 2.0:1	< 2.0:1	< 2.0:1	< 2.0:1
IMPEDANCE:	50 ohms	50 ohms	50 ohms	50 ohms	50 ohms	50 ohms
ANTENNA GAIN (dBic):						
@ 90 ° (ZENITH):	- 4	+ 3.2	+ 2.1	+ 1.2	+ 4.1	+ 3.0
@ 10 ° Elevation:	- 10	- 3.3	- 4.5	- 7.4	- 4.5	- 5.8
@ 20 ° Elevation:	- 9	- 1.7	- 3.2	- 5.8	- 2.9	- 4.1
@ 30 ° Elevation:	- 8	- 0.8	- 2.4	- 4.1	- 1.2	- 2.4
@ 60 - 90 ° Elevation:	> - 5	> 2.3	> 0.9	> - 0.3	> + 2.6	> + 1.6
BEAM WIDTH (3dB):	90 Deg.	95 Deg.	90 Deg.	75 Deg.	80 Deg.	80 Deg.
AXIAL RATIO:	3 dB	1 dB	1 dB	1 dB	1 dB	1 dB
LIGHTNING PROTECTION:		DC GROUNDING				
LNA GAIN:	35 dB	35 dB	35 dB	33 dB	33 dB	33 dB
LNA NOISE FIGURE:	3.0 dB	3.0 dB	3.0 dB	3.0 dB	3.0 dB	3.0 dB
LNA P1dB Out:	+13 dBm	+13 dBm	+13 dBm	+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: MCX FEMALE
(OPTION: SMA, SMB, QMA, SSMC, SSMB, MMCX)

ENVIRONMENTAL:

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

VIBRATION: 70,000 ft.
> 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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
		ECO# 0017, RELEASE	Mar-24-09	S. HUYNH
	A	ADDED MCX CONNECTOR	Oct-02-12	S. HUYNH

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

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE: FRACTIONS ± 1/64, DECIMALS .XX± .015, .XXX± .005, ANGLES ± 1°
TOLERANCE SYM PER ANSI Y14.5
REMOVE ALL BURRS
BREAK EXTERNAL EDGES .005 TO .015
FILLETS R .005 TO R .030
SCREW THREADS PER MIL-S-8879
DIA'S ON A COMMON ℄ Ø.005
MACHINED SURFACES 125
DO NOT SCALE DRAWING

ORIGINALLY DRAWN	S. HUYNH	Mar-24-09
ORIGINALLY DESIGNED	S. HUYNH	Mar-24-09
UPDATED	S. HUYNH	Oct-02-12
UPDATE DRAWN	P. TRAN	Oct-02-12
APPROVED	S. HUYNH	Oct-02-12

ANTCOM CORP. TORRANCE CALIFORNIA

OEM Version on 5in Ground Plane, L1L2Glonass/L1L2GPS/OmniStar G5 ANTENNA (RoHS)

SIZE D | CAGE NO 3CVE1 | DRAWING NO G5Ant-5AM-X | REV A

SCALE 1/1 | SHEET 1 OF 1

ORIGINAL DOCUMENT WHEN STAMP IS RED