

Phase Matched, with M5 Screws and 5.5mm Thru Holes, Lusterless Green on Top and Sidewall

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](mailto:-34dB@(1625-1660)MHz)
 "-HFO" for Additional Omnistar Rejection: -27dB@1545MHz

4x.5mm Thru.
∅.385 [∅9.78] X 100"
For M5 Screws

ELECTRICAL:

FREQUENCY:

	OmniSTAR / L-Band L6 Galileo B1 Compass	L1 GPS E1, E2 Galileo L1 IRNSS	L1 GLONASS
1542.50 ± 14.0 MHz	1542.50 ± 5.0 MHz	1575.42 ± 15.0 MHz	1609 ± 7.0 MHz
1561.098 ± 10 MHz	1575.42 ± 12.0 MHz		

RADIATION PATTERN: HEMISPHERICAL

POLARIZATION: RHCP

VSWR: < 2.0:1

IMPEDANCE: 50 ohms

ANTENNA GAIN (dBi):

	Free Space	4 ft G.P.	Free Space	4 ft G.P.	Free Space	4 ft G.P.
@ 90° (ZENITH):	+2.1	-2.0	+4.0	+2.0	+3.0	+1.4
@ 10° Elevation:	-4.7	-5.1	-2.7	-2.5	-3.9	-3.4
@ 20° Elevation:	-3.5	-1.9	-1.7	+0.4	-2.9	-0.5
@ 30° Elevation:	-2.5	-0.5	-0.5	+1.6	-1.6	+0.5
@ 60 - 90° Elevation:	> +1.1	> -0.5	> +2.9	> +1.6	> +2.0	> -0.2

BEAM WIDTH (3dB): 95 Deg, 145 Deg, 95 Deg, 150 Deg, 95 Deg, 145 Deg

AXIAL RATIO: 1 dB, 2 dB, 1 dB, 1 dB, 2 dB, 3 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, (2.5-24V)/<50mA

POWER HANDLING: 1 Watt CW, Optional: 10 Watts 1 Microsec Pulse (-AL-)

MECHANICAL:

SIZE: DIAMETER: 3.50 in. [88.90 mm]
HEIGHT: 0.86 in. [21.89 mm]

WEIGHT: 9 oz. (256 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDITE PER MIL-C-5541F CLASS 1A
GLOSS WHITE #17925 PER FED-STD-595B

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

MATERIAL:

CONNECTOR: TNC FEMALE
(OPTION: SMA, BNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX)

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C] (Operational)
-85 °F TO +302 °F [-65 °C TO +150 °C] (Storage)

ALTITUDE: 70,000 ft.

VIBRATION: > 30 G's

LEAKAGE: HERMETICALLY SEAL

HAILSTONES: < 0.5" Dia.

DESIGN TO: FAA TSO-C144, DO-160D, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

0.25" [6.37] (MCX/MMCX),
0.46" [11.68] (SMA),
0.57" [14.53] (TNC), 0.83" [21.00] (TNC-BH),
0.72" [18.29] (N, N-BH)

4x.56 [14.12]
4x 1.258 [31.95]
4 x 10-32 UNC-2P
0.250" Deep

∅1.95 [∅49.50]
∅1.74 [∅44.22]
O-Ring (2-031/N756-75)
.26 [6.48]

P/N: G3Ant-3AT1 Connector Color

SIZE:	LNA:	CABLE'S LENGTH:	CONNECTOR:	COLOR:
1: 2" SQ.	A: WITH LNA	X: NO CABLE	S: SMA; B: BNC	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.9: 1.9" SQ.	P: WITHOUT LNA		M: TNC; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA.			N: N; NB: N-Bulkhead	-3: OLIVE DRAB 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: TAN # FS 23446 or 33446, FED-STD-595

QUANTITY REQD	DESCRIPTION	PART NO	THRU NO
4	M5 Screws		5
4	Washer, Custom C'Sink	3G15P1001-70	3
1	O-Ring or Gasket	2-031/N756-75 or 3G15P1001-3G	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES AND ANGLES ± 1/64 .015 .005 ± 1°

REMOVE ALL BURRS BREAK EXTERNAL EDGES .005 TO .015 FILE TO .005 TO .010 .005 MAX DIA PER MIL-C-8879 DIA'S ON A CONICAL SURFACE

MACHINED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA

3.5in Dia.
L1 Glonass/L1GPS/OmniStar
G3 ANTENNA

DATE: 03/24/09
APPROVED: S. HUYNH
DRAWN: D.3C/VE1

SCALE: 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas