

ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501 . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . <http://www.antcom.com>

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

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1.600 [40.64]
2.200 [55.88]

3.400 [86.36]
2.000 [50.80]
4x Ø.201 [Ø5.11] THRU Ø.385 [Ø9.78] X 100°

SPECIFICATIONS

ELECTRICAL:

	L5 GPS E5, E5a, E5b Galileo L5 IRNSS	L2 GPS B2 Compass	L2 GLONASS E5 Galileo B3 Compass	OmniSTAR / L-Band L6 Galileo B1 Compass L1 IRNSS	L1 GPS E1, E2 Galileo	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	
VSWR:	< 2.0:1		< 2.0:1		< 2.0:1	
IMPEDANCE:	50 ohms		50 ohms		50 ohms	
ANTENNA GAIN (dBi):	Free Space 4 ft G.P.	Free Space 4 ft G.P.	Free Space 4 ft G.P.	Free Space 4 ft G.P.	Free Space 4 ft G.P.	Free Space 4 ft G.P.
@ 90° (ZENITH):	- 3	+ 2.6	+ 4.8	+ 2.4	+ 2.1	+ 3.0
@ 10° Elevation:	- 9	- 10	- 3.5	- 3.5	- 6.5	- 6.3
@ 20° Elevation:	- 8	- 7	- 2.0	- 3.3	- 4.7	- 5.1
@ 30° Elevation:	- 6	- 5	- 0.4	+ 1.8	- 3.4	- 3.5
@ 60 - 90° Elevation:	> -4	> -4	> 1.3	> 2.6	> -1.1	> -0.5
BEAM WIDTH (3dB):	110 Deg.	120 Deg.	110 Deg.	115 Deg.	110 Deg.	95 Deg.
AXIAL RATIO:	1.5 dB	2 dB	1 dB	1 dB	2 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, (2.5-24V)/<50mA					
POWER HANDLING:	1 Watt CW, Optional: 10 Watts 1 Microsec Pulse (-AL-)					

C B A

R6.000 [R152.40]
1.013 [25.73]
.300 [7.62]
.255 [6.47]
X, Y Phase Center = 0.0 (Center of Antenna)
Z Phase Center = .813 [20.65]

TNC FEMALE CONNECTOR
OPTION: MCX, QMA, SMA, SMB, SSMA, SSMC, SSMP, MCX, OR SMP

0-RING
P/N: 2-031-N756-75

P/N: G5Ant-4ANT1

SIZE:	LNA:	CABLE'S LENGTH:	CONNECTOR:	COLOR:
1: 2" SQ.	#2: ARINC 743	X: NO CABLE	S: SMA; B: BNC	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.9: 1.9" SQ.	52: 2.6" DIA. ON 5" GROUND PLANE		M: MCX; MM: MMX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA.	72: 2" DIA. CHOKE RING		N: N; NB: NB-Bulkhead	-3: OLIVE DRAB GREEN #34094 PER FED-STD-595B
3: 3.5" DIA.			T: TNC; TB: TB-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI-ARINC				-5: TAN; F: FS 23446 or 33446, FED-STD-595

MECHANICAL:

SIZE: WIDTH: 2.20 in. [55.88 mm], LENGTH 3.40 in. [86.36 mm], HEIGHT: 1.013 in. [25.73 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

CONNECTOR: TNC FEMALE
OPTION: MCX, QMA, SMA, SMB, SSMA, SSMC, SSMP, MCX, OR SMP

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.

FEDERAL & MILITARY SPECIFICATIONS:

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

QTY	DESCRIPTION	PART NO	ITEM NO
4	Mounting Screws: 10-32, 1.25"	J507C1032R20 (93085A835)	3
4	Washer, Custom C'Sink	3G15P1001-70	2
1	0-Ring	2-031-N756-75	1

QUANTITY REQD PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	ORIGINALLY DRAWN	DATE
FRACTIONS DECIMALS ANGLES	S. HUYNH	May-24-09
1/8 1/16 .001 1/16 1/16 1/16	S. HUYNH	May-24-09
TOLERANCE 5V PER ANG Y14.5	S. HUYNH	April-17-14
RELIEVE ALL SHARP	P. TRAN	April-17-14
DEBurr EXTERNAL EDGES .005 TO .015	S. HUYNH	April-17-14
SMOOTH FINISH TO R .015	S. HUYNH	April-17-14
SURFACE FINISH PER MIL-C-8878	S. HUYNH	April-17-14
3.0 DIA OR SMALLER 2.0 DIA	S. HUYNH	April-17-14
WASHED SURFACES 12V	S. HUYNH	April-17-14
DO NOT SCALE DRAWING		

ANTCOM CORP. TORRANCE, CALIFORNIA

Mini Arinc
L1L2Glonass/L1L2GPS/OmniStar
G5 ANTENNA

REV: 1.0
D13CVE1 G5Ant-4ANT1

SCALE 1/1 SHEET 1 OF 1