

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@(1625-1660)MHz

SPECIFICATIONS

ELECTRICAL:

	Rx L-Band/ L6 Galileo (1525 - 1560)	L1 GPS/ L1/E1/E2 Galileo (1555 - 1595)	L1 Glonass (1602 - 1626)
FREQUENCY (MHz):	FS/3.5in GP	FS/3.5in GP	FS/3.5in GP
ANTENNA GAIN (dBi):	> +2.5	+5.5	+4.5
@ 90° (ZENITH):	> -4.7	-1.2	-1.4
@ 10° Elevation:	> -3.0	+0.3	+1.4
@ 20° Elevation:	> -2.3	+1.8	+2.2
@ 30° Elevation:	> +2.0	> 4.8	> 3.8
@ 60 - 90° Elevation:			> +2.5
BEAMWIDTH (3dB):	106 Deg.	106 Deg.	130 Deg.
RADIATION PATTERN:	HEMISPHERICAL		
POLARIZATION:	RHCP		
VSWR:	< 1.5:1		
IMPEDANCE:	50 ohms		
AXIAL RATIO:	3 dB		
LIGHTNING PROTECTION:	DC GROUNDING		
LNA OPTION			
LNA GAIN:	40 dB (-A4), 20 dB (-A2), 35 dB (-A)		
LNA NOISE FIGURE:	3.0 dB		
LNA P1dB Out:	+13 dBm		
LNA DC POWER:	(2.5-24)Volts @ < 39 mA		
POWER HANDLING:	200 Watts CW (WITHOUT LNA), 1 Watt CW (WITH LNA)		

MECHANICAL:

SIZE: DIAMETER: 2.67 in. [67.82 mm]
HEIGHT: 0.845 in. [21.46 mm]

WEIGHT: 4.00 oz. [113 g]

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDITE PER MIL-C-5441

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

CONNECTOR: SMA FEMALE
(OPTION: TNC, TNC-Bulkhead, N, N-Bulkhead,
MCX, MMCX, or Cable)

ENVIRONMENTAL:

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

ALTITUDE: 70,000 ft.

VIBRATION: > 30 G's

LEAKAGE: HERMETICALLY SEAL

FEDERAL & MILITARY SPECIFICATIONS:

DESIGN TO: 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 REQD	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO
1	ADHESIVE GASKET	12345G-3M-1G				5
1						2
1						1

ANTCOM CORP. TORRANCE CALIFORNIA

2.6" Dia. Magnetic Mount
Active L1 GPS/OmniStar
& Glonass ANTENNA

3C V E 1 | 2GO16A4-MNS-X | 1

P/N: 2GO16A4-MNS-1

SIZE	FREQ. BAND	LNA	CABLE LENGTH	CONNECTOR	COLOR
1: 2" SQ.	42: ARINC 743	GO1216: L1/L2 GPS/GNSS/L-Band	A: 33 dB Gain	X: NO CABLE	S: SMA; P: PINS
1.9: 1.9" SQ.	5: CIRCULAR	GO1215: L1/L2 GPS/L-Band	A4: 40 dB Gain	M: MAG. N: NO MAG	M: MCX; MM: MMCX
2: 2.5" DIA.	GO16: L1 GPS/GNSS/L-Band	A2: 20 dB Gain	MN: FLUSH MAG	N: N; N: N-Bulkhead	-1: LUSTERLESS GRAY #36320 PER FED-STD-595B
3: 3.5" DIA.	G1215: L1/L2	P: WITHOUT LNA	#: CABLE LENGTH (IN)	T: TB: TNC; TNC-Bulkhead	-3: OLIVEDRAB GREEN #34031 PER FED-STD-595B
4: MINI ARINC	GO1116: L1/L2/L3/L5/L6 GPS/GNSS/Galileo	R: RIGHT ANGLE CON.			-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DATE
FRACTIONS: DECIMALS	JUN 05
TOLERANCE ± 1/64	JUN 05
TOLERANCE 5/16 PER AISD 114.5	JUN 05
REMOVE ALL BURRS	
BREAK EXTERNAL EDGES .006 TO .016	
FILED & DIM TO P. 030	
SOBOW THRU LAGS PER MIL-C-8879	
DRY ON A COMMON 2.0 DIA	
MACHINED SURFACES 7/1	

DO NOT SCALE DRAWING

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