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

### SPECIFICATIONS

**ELECTRICAL:**

	L2/L3 GPS/ E5A/E5B/E6 Galileo	L2 GPS	Rx L-Band/ L6 Galileo	L1 GPS/ L1/E1/E2 Galileo	L1 Glonass
FREQUENCY (MHz):	(1146-1301)	(1227.60±12)	(1525- 1560)	(1555- 1595)	(1602- 1626)
ANTENNA GAIN(dBic)	FS/3.5" GP	4 ft G.P.	FS/3.5" GP	FS/3.5" GP 4 ft G.P.	FS/3.5" GP
@ 90° (ZENITH):	+3.3	+4.9	+3.1	+5.5	+4.5
@ 10° Elevation	-3.8	-3.6	-3.7	-1.2	-1.4
@ 20° Elevation	-2.0	-0.1	-2.0	+0.3	+1.4
@ 30° Elevation	-0.5	-1.8	-1.3	+1.8	+2.2
@ 60-90° Elevation:	>2.7	>3.0	>2.0	>4.8	>3.8
BEAMWIDTH (3dB)		106 Deg.	75 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				
<b>LNA OPTION</b>					
LNA GAIN:	40 dB (-A4), 20 dB (-A2), 35 dB (-A)				
LNA NOISE FIGURE:	2 dB				
LNA P1dB Out:	+13 dBm				
LNA DC POWER:	(2.5-24) Volts @ < 39 mA				
POWERHANDLING:	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	TEST NO.
1	ADHESIVE GASKET	12345G-3M-1G	-	-	-	5
1						3
1						2
1						1
-2	-1					

P/N: 2GO1216A4-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: 5" CIRCULAR	GO1216/L1/L2 GPS/L-Band	A4: 40 dB Gain	M: MAG. N: NO MAG	M: MCX; MM: MMCX
2: 2.5" DIA.		GO18: L1 GPS/GNSS/L-Band	A2: 20 dB Gain	MIN: FLUSH MAG	N: NB; N: N-Bulkhead
3: 3.5" DIA.		G1215: L1/L2	P: WITHOUT LNA	T: TB; TNC; TNC-Bulkhead	-1: GLOSS WHITE #17925 PER FED-STD-595B
4: MINI ARINC	GO1116/L1/L2/L3/L5/L6 GPS/GNSS/Galileo	R: RIGHT ANGLE CON.			-2: LUSTERLESS GRAY #36520 PER FED-STD-595B
					-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
					-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

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2.6" Dia. Magnetic Mount  
Active L1/L2 GPS/OmniStar  
& Glonass Antenna

D33CVE12GO1216A4-MNS-X

SCALE 1/1 SHEET 1 OF 1

CC: 3CVE1, NAICS: 334511, S. Huynh, 23-Nov-13

<http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts1.pdf> (Amplifiers, Power Divider/Combiner, Filters, Diplexer)

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