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

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4X  $\phi$ .20 [ $\phi$ 5.11] Thru.  
 $\phi$ .385 [ $\phi$ 9.78] X 100"  
for 10-32 MOUNTING SCREWS

SPHERICAL R6.000 [R152.40]

X, Y Phase Center = 0.0  
Z Phase Center = .632 [16.05]

NAMEPLATE APPROXIMATE LOCATION

4x 0.190-32 UNC-2B  
0.250" Deep, Equally Spaced on  
1.375" Rad. for Optional Mounting

TNC CONNECTOR  
(OPTION: SMA, TNC Bulkhead,  
N, N Bulkhead, MCX, MMCX, or Cable)  
Clearance Hole: 0.4" Dia.  
for SMA, MCX, & MMCX Con.  
0.52" Dia. for TNC Con.  
0.63" Dia. for N Con.

**SPECIFICATIONS**

**ELECTRICAL:**

FREQUENCY:	L1: (1575.42 $\pm$ 13) MHz	O: (1542.5 $\pm$ 17.5) MHz
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	RHCP	
VSWR:	< 1.5:1	
IMPEDANCE:	50 ohms	
ANTENNA GAIN (dBic):	Free Space	4 ft G.P.
@ 90° (ZENITH):	+4.1	+2.5
@ 10° Elevation:	-3.5	-3.0
@ 20° Elevation:	-2.1	-0.2
@ 30° Elevation:	-0.8	+0.8
@ 60 - 90° Elevation:	> 2.5	> 1.8
BEAM WIDTH (3dB):	87 Deg.	139 Deg.
AXIAL RATIO:	2 dB	2 dB
LIGHTNING PROTECTION:	DC GROUNDING	
LNA GAIN:	20 dB (...A2-..), 35 dB (...A-..), 40 dB (...A4-..)	
LNA NOISE FIGURE:	1.9 dB	
LNA P1dB Out:	+13 dBm	
LNA DC POWER:	(2.5-24) V / < 35 mA	
POWER HANDLING:	1 Watt CW	

**MECHANICAL:**

SIZE: DIAMETER: 3.50 In. [ 88.90 mm]  
HEIGHT: 0.812 In. [20.62 mm]

WEIGHT: 8.0 oz. (226.8 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: TNC FEMALE  
(OPTION: SMA, 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, DO-228, MIL-C-5541,  
MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

**ACCEPTANCE TEST PROCEDURE:** ATP-GPS-L1L2-100

QTY	DESCRIPTION	PART NO	ITEM NO
4	MOUNTING SCREWS: 10-32, 3/4"	J507C1032R12, or 93085A831	5
A/R	WASHER, CUSTOM C'SINK	3G15P1001-70	3
1	GASKET	3G15P1001-3G	1
-2	-1		

**QUANTITY REQD**      **PARTS LIST**

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
FRACTIONS TO DECIMALS AND  
DECIMALS TO FRACTIONS  
 $\pm$  1/64       $\pm$  .005       $\pm$  .01

TOLERANCE S'VE FOR ANS I14.8  
REMOVE ALL BURRS  
BREAK EXTERNAL EDGES .005 TO .015  
FILES R .005 TO R .020  
SCREW THREADS PER MIL-S-8879  
DATA ON A COMING 6.27-008  
MACHINED SURFACES

DO NOT SCALE DRAWING

**ANTCOM CORP.** TORRANCE, CALIFORNIA  
3.5" Dia.  
Active GPS/  
L-Band Antenna  
D 3CVE1 3GOXX16A4-XTR-1-6 A  
SCALE 1/1      SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas