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

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4X ϕ .201 [ϕ 5.11] Thru.
 ϕ .385 [ϕ 9.78] X 100"
 for 10-32 MOUNTING SCREWS

REMOVABLE GROUND PLANE

Phase Center:
 $x=y=0$;
 $z=.557$ [14.15]

Removable Survey Mount:
 THD 5/8-11 UNC-2B
 x0.7" Deep

1-1/16 [26.92]
 For High/Constant Vibration Applications,
 Please Tight The Antenna to
 ~700 in-lbs of Torque with
 Thread Locker to Avoid Wear.

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

P/N: 53GO15A4F-XT-1

SIZE:	FREQ. BAND:	LNA GAIN:	CABLE'S LENGTH:	CONNECTOR:	COLOR:
1: 2" SQ.	42; ARINC 743	GO1216: L1/L2 GPS/GNSS/L-Band	X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.8; 1.9" SQ.	S: 5" CIRCULAR	GO1215: L1/L2 GPS/L-Band	M: MAG. N: NO MAG.	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA.		GO16: L1 GPS/GNSS/L-Band	R: RIGHT ANGLE CON.	N: NB; N: NB Bulkhead	-3: CAMO GREEN #34094 PWR FED-STD-595B
3: 3.5" DIA.		GO1316: L1/L2 GPS & L1/L2 Glonass		T: TNC; TNC Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARINC		GO1116: L1/L2/L3/L5/L6 GPS/GNSS/Galileo			-5: DESERT TAN #33446 PER FED-STD-595B

SPECIFICATIONS

ELECTRICAL:

FREQUENCY (MHz):	Rx L-Band/ L6 Galileo	L1 GPS/ L1/E1/E2 Galileo
(1525 - 1560)	(1525 - 1560)	(1555 - 1585)
ANTENNA GAIN (dBi):	Free Space	Free Space 4 ft G.P.
@ 90 ° (ZENITH):	> +2.5	+5.5 +4.5
@ 10 ° Elevation:	> -4.7	-1.2 -1.4
@ 20 ° Elevation:	> -3.0	+0.3 +1.4
@ 30 ° Elevation:	> -2.3	+1.8 +2.2
@ 60 - 90 ° Elevation:	> +2.0	> 4.8 > 3.8
BEAM WIDTH (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), 33 dB (-A-)
LNA NOISE FIGURE:	< 2.9 dB
LNA P1dB Out:	+13 dBm
LNA DC POWER:	(2.5-24)Volts @ < 39 mA
FILTER REJECTION OPTION:	9dB @ 1609 MHz, 21 dB @ 1626 MHz, 38dB @ 1660 MHz
POWER HANDLING:	200 Watts CW (WITHOUT LNA) , 1 Watt CW (WITH LNA)

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

QUANTITY REQD	DESCRIPTION	PARTS LIST	PART NO	FINISH	ITEM NO
4	MOUNTING SCREWS: 10-32, 3/4"		MS24693C274	-	5
1	EPDM GASKET (Item 541a)		3G15P1001-3G-5	-	4
1	5" DIA. GROUND PLANE (Item 551)		12G1215P001-B6 RevA	-	3
1	SURVEY ANTENNA MOUN (Item 484a)		MTR-3 Rev B	-	2
1	ANTENNA ONLY WITHOUT MOUNT/GROUND PLANE		3G015A4F-XT-1	-	1

ANTCOM CORP. TORRANCE, CALIFORNIA

Active
 L1 GPS/OmniStar (L-Band)
 Survey Mount Antenna

Part No: 3CVE1 53GO15A4F-XT-1

SCALE 1/1 SHEET 1 OF 1