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MECHANICAL:

SIZE: DIAMETER: 2.60 In. [66.04 mm]
HEIGHT: 0.690 in. [17.53 mm] (Active), 0.58" [14.73] (Passive)
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: TNC BULKHEAD (OPTION: TNC, SMA, 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

SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	L1: (1575.42 ±12) MHz		
RADIATION PATTERN:	HEMISPHERICAL		
POLARIZATION:	RHCP		
VSWR:	< 1.5:1		
IMPEDANCE:	50 ohms		
ANTENNA GAIN (dBic):	Free Space	16 in G.P.	4 ft G.P.
@ 90 ° (ZENITH):	+ 5.0	+ 2.5	+ 3.6
@ 10 ° Elevation:	- 2.3	- 2.9	- 1.7
@ 20 ° Elevation:	- 0.9	- 0.5	+ 1.0
@ 30 ° Elevation:	+ 0.7	+ 1.6	+ 2.4
@ 60 - 90 ° Elevation:	> 4.2	+4.7/+2.5	> 3.6
BEAM WIDTH (3dB):	102 Deg.	107 Deg.	127 Deg.
AXIAL RATIO:	2 dB		
LIGHTNING PROTECTION:	DC GROUNDING		
LNA GAIN:	33 dB		
LNA NOISE FIGURE:	2.4 dB		
LNA P1dB Out:	+13 dBm		
LNA DC POWER:	2.5V/20mA, 3V/20mA, 3.3V/20mA, (2.5-24)V/<30mA		
REJECTION @ (-50/+50) MHZ	-45 dB / -70 dB		
@ (-100/+100) MHZ	< -65 dB		

MATERIALS LIST:

QTY	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	REV
1	ADHESIVE GASKET	12345G-3M-2G	-	-	-	5
1	WASHER, LOCK	AN936B816	-	-	-	3
1	HEX NUT, MOUNTING	1/2-20 HEX	-	-	-	2
-2	MINI ARINC					1

UNLESS OTHERWISE SPECIFIED:

FRACCTIONS: DECIMALS: ANGLES:	DRWN: S. HUYNH 01-05-29
± 1/64 ± .015 ± .1°	CHKD: S. HUYNH 01-05-29
TOLERANCE SHI PER AMS 1415	ENGRD: S. HUYNH 01-05-29
RELIEVE ALL SHARP EDGES .005 TO .015	DRWN: S. HUYNH 01-05-29
BREAK EXTERNAL EDGES .005 TO .015	ENGRD: S. HUYNH 01-05-29
FILES TO SIZE 3.00	DRWN: S. HUYNH 01-05-29
SCREW THREADS PER UNF-2-8879	ENGRD: S. HUYNH 01-05-29
DATA ON A COMMON 1/2" DIA	DRWN: S. HUYNH 01-05-29
MACHINED SURFACES 25°	ENGRD: S. HUYNH 01-05-29
DO NOT SCALE DRAWING	CHK FILE NO:

ANTCOM CORP. TORRANCE CALIFORNIA

2.6" Dia
L1 ACTIVE or PASSIVE
GPS ANTENNA

USE: 3CVE1
P/N: 2G15A-XT-5
SCALE: 1/1
SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas