



MECHANICAL:
 WIDTH: 2.20 in. [55.88 mm], LENGTH: 3.40 in. [86.36 mm], HEIGHT: 0.72 in. [18.16 mm] 0.61" [15.49] (Optional for Passive)

WEIGHT: 5.15 oz. (146 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5444

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:
 FAA TSO-C144, DO-160D, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

DESIGN TO: FAA TSO-C144, DO-160D, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

SPECIFICATIONS		REVISIONS		
ZONE	REV	DESCRIPTION	DATE	APPROVED

ELECTRICAL:

	L1: (1575.42 ±15) MHz	L2: (1227.60 ±15) MHz				
FREQUENCY:						
RADIATION PATTERN:	HEMISPHERICAL					
POLARIZATION:	RHCP	RHCP				
VSWR:	< 1.5:1	< 1.5:1				
IMPEDANCE:	50 ohms	50 ohms				
ANTENNA GAIN (dBic):	Free Space	16 in G.P.	4 ft G.P.	Free Space	16 in G.P.	4 ft G.P.
@ 90 ° (ZENITH):	+ 4.6	+ 0.3	+ 2.9	+ 1.8	+ 1.9	+ 5.3
@ 10 ° Elevation:	- 2.5	- 3.1	- 1.8	- 4.2	- 3.1	- 2.3
@ 20 ° Elevation:	- 1.1	- 1.1	+ 0.7	- 2.9	- 1.1	+ 0.4
@ 30 ° Elevation:	+ 0.5	+ 0.9	+ 1.7	- 2.0	+ 0.5	+ 2.3
@ 60 - 90 ° Elevation:	> 3.6	+ 3.1/+ 0.3	> 2.1	> 0.9	+ 3.1/+ 1.9	> 3.2
BEAM WIDTH (3dB):	103 Deg.	120 Deg.	146 Deg.	108 Deg.	120 Deg.	74 Deg.
AXIAL RATIO:	2 dB		2 dB			
LIGHTNING PROTECTION:	DC GROUNDING					
LNA GAIN:	33 dB		35 dB			
LNA NOISE FIGURE:	3.0 dB		3.0 dB			
LNA P1dB Out:	+13 dBm		+13 dBm			
LNA DC POWER:	2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24V)/<50mA					
REJECTION @ (-50/+50) MHz	-41 dB / -59 dB		-40 dB / -40 dB			
REJECTION @ (-100/+100) MHz	< -65 dB		< -65 dB			
POWER HANDLING:	1 Watt CW, Optional: 10 Watts 1 Microsec Pulse (-AL-)					

NOTES: UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES AND ANGLES ± 1/64

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

2. O-RING, AND MOUNTING SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

3. UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES AND ANGLES ± 1/64

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5. UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES AND ANGLES ± 1/64

6. UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES AND ANGLES ± 1/64

7. UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES AND ANGLES ± 1/64