



ISO 9001:2008/FAA Approved Facility

Antenna Mounts/Adapters: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

(2.0-2.5) GHz S-Band Omni Antenna, P/N: 5B-2.0-2.5V-O-XN-1, 4.6" Tall Blade Configuration



FAA Approved
TSO Antennas

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4x.201 [.45.11] Thru.
✓ φ.385 [φ9.78] X 100"

1.750 [44.45]

5.250 [133.35]

4.625 [117.48]

0.57" [14.53] (TNC), 0.72" [18.29] (N, N-Bulkhead)
0.46" [11.68] (SMA), 0.83" [21.00] (TNC-Bulkhead)

NAME PLATE

0-RING GROOVE
MS28775-024

4x.490 [12.45]

4x1.800 [45.72]

0.425 [10.80]

P/N: 5B-2.0-2.5V-O-XN-1

FREQUENCY(GHZ)	POLARIZATION:	BEAM PATTERN	CABLE LENGTH	CONNECTOR	COLOR
X.X - X.X	V: VERTICAL	F: FAN BEAM	X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
	L: LHCP	O: OMNI	M: WITH MAG. MOUNT	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
	R: RHCP		#: CABLE LENGTH (IN)	N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
			R: RIGHT ANGLE CON.	T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	(2.000 - 2.500) GHz
RADIATION PATTERN:	OMNI
POLARIZATION:	VERTICAL
VSWR:	< 2.0:1
GAIN (dB):	3 dBi
Elevation Beam Width (3dB):	(40 to 54) °
Azimuth Beam Width (3dB):	360 °
IMPEDANCE:	50 Ohms
POWER HANDLING:	200 Watt
DC GROUNDING:	YES (LIGHTNING PROTECTION)

MECHANICAL:

SIZE: WIDTH: 1.75 in. [44.45 mm], LENGTH: 5.25 in. [133.35 mm], HEIGHT: 4.63 in. [117 mm]

WEIGHT: 10.0 oz. (284g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL TOP, BASE IRIDITE PER MIL-C-5441

COLOR: GLOSS WHITE #17925 PER FED-STD-595B
LUSTERLESS GRAY #36320 PER FED-STD-595B
OLIVE DRAB GREEN #34031 PER FED-STD-595B
LUSTERLESS BLACK #37038 PER FED-STD-595B

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, AND SKYDROL RESISTANCE, FIRE RETARDANT

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

MOUNTING: FIXED MOUNT: FROM TOP

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]

ALTITUDE: 70,000 ft.

VIBRATION: > 20 G's

LEAKAGE: HERMETICALLY SEALED

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

QUANTITY REQD	DESCRIPTION	PARTS LIST	PART NO	FINISH	NEW
3	MOUNTING SCREWS: 10-32 100", Flat Head, 1/2"		MS24693C273	-	5
1	O-RING		MS28775-024	-	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS DECIMALS ANGLES
± 1/64 .001 .015 ± 1°
TOLERANCES ARE:
TOLERANCE 5TH PER ANSI Y14.5
REMOVE ALL SHARP
BREAK EXTERNAL EDGES .005 TO .015
FILLETED .500 TO 1.000
SCREEN THREADS PER MIL-C-8879
DIN 913 OR A CORNER R .27-.025
MACHINED SURFACES TO

ANTCOM CORP. TORRANCE, CALIFORNIA

S-BAND
3dB OMNI BLADE ANTENNA

APPROVED: S. HUYNH SEP-14-08
D 3CVE1 5B-2.0-2.5V-O-XN-1
SCALE 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas