



(4.4 -5.85) Ghz 5dB Gain Omni Blade Antenna, P/N: 5B-4.4-5.8V-O-XT-2

4.6" Tall, for 802.11RF Ranging, and Video/Data link Applications



FAA Approved TSO Antennas

ISO 9001:2008/FAA Approved Facility

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

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Dimensions: 1.750 [44.45], 5.250 [133.35], 1.244 [31.60], 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), 2x.980 [24.89], 3.600 [91.44], 4x.201 [.05.11] √.385 [.09.78] x 100° FARSIDE, 0-RING GROOVE MS28775-024

DATE STAMP APPROXIMATE LOCATION AS SHOWN

BEAM DIRECTION

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

NAME PLATE

SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	(4400 - 5850) MHz
RADIATION PATTERN:	OMNI
POLARIZATION:	VERTICAL
VSWR:	< 2.0:1
GAIN (dB):	5 dBil
Elevation Beam Width (3dB):	30 °
Azimuth Beam Width (3dB):	360 °
X-POL LEVEL:	-16 dB
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 4.77 in. [121.16 mm]
 WEIGHT: 8.0 oz. (.227 Kg)
 FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL TOP, BLACK ANODIZED BASE
 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: SMA CONNECTOR (OPTION: TNC, SMA, N, N Bulkhead, MCX, MMCX, or Cable)
 MOUNTING: FIXED MOUNT: FROM TOP OR BOTTOM

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]
 ALTITUDE: 70,000 ft.
 VIBRATION: > 30 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

ZONE	REV	DESCRIPTION	DATE	APPROVED
3		MOUNTING SCREWS: 10-32 100 ° Flat Head, 1/2"		MS24693C273
1		0-RING		MS28775-024

QUANTITY: 1000 PARTS LIST

CONFIGURATION:	POLARIZATION:	BEAM PATTERN:	CABLE'S LENGTH:	CONNECTOR:	COLOR:
2: 2.6" DIA. BASE	V: VERTICAL	F: FAN BEAM	X: NO CABLE	S: SMA, P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
3: 3.5" DIA. BASE	L: LHCP	O: OMNI	M: WITH MAG. MOUNT	M: MCX, MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
B: 5" BLADE	R: RHCP		R: 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

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS USE DECIMAL EQUIVALENT ANGLES ± 1/64 ± .015 ± .1° MACHINED SURFACES ± .005

TOLERANCE .5M PER ANG 174.5 REMOVE ALL BURRS BREAK EXTERNAL EDGES .005 TO .015 FILL .015 TO .030 SREWS PER MIL-S-8879 CLASS ON A COMMON S. 27-005

ANTCOM CORP. TORRANCE, CALIFORNIA
 (4.4-5.8) GHz, C-BAND
 5dB OMNI BLADE ANTENNA

APPROVED: S. HUYNH FEB-11-04
 DO NOT SCALE DRAWING
 SCALE 1/1
 SHEET 1 OF 1

P/N: 5B-4.4-5.8V-O-XS-2

NOTES: UNLESS OTHERWISE SPECIFIED:
 1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
 2. ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

NMO Connector Option is Now Available for Some Antennas