



# UHF/L/S/C-Band Antenna

P/N: 5BE-500-3000-XT-2

4.625" Tall Blade Configuration

Other Frequency Bands, Color and Connector Options Are Also Available



ISO 9001:2008/FAA Approved Facility

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

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**SPECIFICATIONS**

REVISIONS		DATE	APPROVED
ZONE	REV	DESCRIPTION	

**ELECTRICAL:**

FREQUENCY (MHZ):	(500-3000) MHz
PATTERN:	OMNIDIRECTIONAL
POLARIZATION:	VERTICAL
ANTENNA GAIN:	(500-600) MHz: > -4 dBi (600-3000) MHz: > 0 dBi
VSWR:	< 2.5:1
OUTPUT IMPEDANCE:	50 Ω
POWER HANDLING:	100 Watts
LIGHTNING PROTECTION:	DC GROUNDED

**MECHANICAL:**

SIZE: WIDTH = 2.062 in. [52 mm], LENGTH = 5.250 in. [133 mm]  
HEIGHT 4.625 in. [119 mm]

WEIGHT: 9.6 oz. (272 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL  
BASE IRIDITE PER MIL-F-5541F, Type II, Class 3

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

CONNECTOR: TNC FEMALE  
(OPTION: SMA, N, BNC or CABLE)

**ENVIRONMENTAL:**

TEMPERATURE: -87°F TO +185°F [-55°C TO +85°C]  
ALTITUDE: 70,000 ft.  
VIBRATION: 10 G's  
LEAKAGE: HERMETICALLY SEAL

**FEDERAL & MILITARY SPECIFICATIONS:**

**DESIGN TO:** TSO-C169A/C144, MIL-C-5541F(Finish), MIL-DTL-14072(Finish), MIL-I-45208A(Inspection), DO-160D(Test), DO-228, MIL-STD-810 (Test), SAE J1455(Environmental), MIL-S-901D(Shock), MIL-STD-167-1A(Vibration), MIL-HDBK-2164A(Stress), MIL-STD-461E/F(Elec Interfer), MIL-STD-202(Elec Comp.), MIL-HDBK-5400(Elec Eq.), MIL-HDBK-454(Elec Eq.), MIL-PRF-39012(Conn), MIL-STD-129 (Marking), MIL-STD-1285 (Marking), MIL-STD-889(Metal), FED-STD-595(Color), MIL-C-85704B(Solvent), MIL-G-81827(Grease)

5.250 [133.35] 4X Ø.201 [Ø5.11] THRU  
Ø.385 [Ø9.78] X 100°  
2.062 [52.37]  
R1.031 [R26.19]  
1.119 [28.42]  
4.625 [117.48]  
TNC FEMALE CONNECTOR  
Ø.980 [24.89]  
3.600 [91.44]  
O-RING  
P/N: MS28775-024  
O.D.: 1.278 [32.46]  
I.D.: [1.090 [27.69]

SIZE:	START FREQ. (GHz):	STOP FREQ. (GHz):	DC BLOCK/LIMITER:	LNA:
1: 2" SQ.	0.22, 0.31, 0.35, 0.37,	0.31, 0.35, 0.37, 0.40,	DL: WITH DC BLOCK	A1: WITH +23 dB LNA
1.4" 1.9" SQ.	0.40, 0.42, 0.45, 0.50,	0.41, 0.42, 0.45, 0.50,	& WITH LIMITTER	A2: WITH +43 dB LNA
2: 2.6" DIA.	0.70, 0.80, 0.99, 1.30	0.70, 0.80, 0.99, 1.40	BLANK: WITHOUT DC	P: WITHOUT LNA
3: 3.5" DIA.	1.50, 1.60, 1.70, 1.80	1.55, 1.65, 1.75, 1.85	BLOCK NOR LIMITTER	
4: MINI ARING	1.99, 2.40, 2.70	1.99, 2.50, 2.70, 3.00		

QTY	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO
4	SCREW, MOUNTING	MS24693C273	-	-	-	2
1	O-RING	MS28775-024	-	-	-	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES TOLERANCES ± 1/64 .0005 .005 ± 1°

REMOVE ALL BURRS FILE ALL INTERNAL EDGES .005 TO .010 SMOOTH ALL SURFACES TO 320° SMOOTH ALL SURFACES TO 320° SMOOTH ALL SURFACES TO 320° MACHINED SURFACE

TOLERANCE SW PER ANSI Y14.6

DO NOT SCALE DRAWING

**CABLE'S LENGTH:**  
X: NO CABLE  
M: WITH MAG. MOUNT  
#:# CABLE LENGTH (IN)  
R: RIGHT ANGLE CON.

**CONNECTOR:**  
S: SMA; P: PINS  
M: MCX; MM: MMCX  
N: N/N-Bulkhead  
T: TB; TNC, TNC- Bulkhead  
BNC: BNC

**COLOR:**  
-1: GLOSS WHITE #17925 PER FED-STD-595B  
-2: LUSTERLESS GRAY #36320 PER FED-STD-595B  
-3: CAMO GREEN #34094 PER FED-STD-595B  
-4: LUSTERLESS BLACK #37036 PER FED-STD-595B  
-5: DESERT TAN #33446 PER FED-STD-595B

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DATE	BY	CHKD	APP'D	DESCRIPTION
Feb-12-16	S. HUYNH			ORIGINAL DRAWN
Feb-12-16	S. HUYNH			ORIGINAL DESIGNED
May-31-17	S. HUYNH			UPDTE DRAWN
May-31-17	P. TRAN			APPROVED

**ANTCOM CORP.** TORRANCE, CALIFORNIA

**OUTLINE DRAWING**  
VHF/UHF ANTENNA

D 3CVE1      5BE-500-3000-XT-2

SCALE 1/1      SHEET 1 OF 1