



FAA Approved Facility

4G/LTE/UHF/L/S-Band Antenna

P/N: 3B-0.70-2.70V-XT-2 (0.70-2.70 GHz)

P/N: 3B-0.70-5.90V-XT-2 (0.70-5.90 GHz)

P/N: 3B-0.80-0.99V-XS-1-RoHS (0.80-0.99 GHz)

For Cellular, PCS, 2G, 3G, 4G/LTE, CDMA, GSM, Wi-Fi & UMTS Applications. Other Frequencies, Connectors and Colors are Available

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



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SPECIFICATIONS

ZONE		REVISIONS		
REV	DESCRIPTION	DATE	APPROVED	
A	DIMENSION	Oct-10-16	S.H	

ELECTRICAL:

UHF/L/S-BAND	
FREQUENCY:	690-960MHz / 1700-2200MHz / 2300-2700MHz
PATTERN:	OMNIDIRECTIONAL
POLARIZATION:	VERTICAL
ANTENNA GAIN :	3.5 dBil (on Minimum 24in Ground Plane)
VSWR:	700 MHz = 2.8:1, 800 MHz = 2.2:1, >800 MHz = 2.0:1
OUTPUT IMPEDANCE:	50 Ω
POWER HANDLING:	250 watts CW
LIGHTNING PROTECTION:	DC GROUNDING

MECHANICAL:

SIZE: WIDTH: 2.055 in. [52 mm], LENGTH: 5.25 in. [133 mm], HEIGHT: 3.062 in. [77 mm]
 WEIGHT: 5.3 oz. (150g)
 FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5541F
 MATERIAL: 6061-T6 ALUMINUM ALLOY BASE THERMOSET PLASTIC RADOME, UV, ABRASION AND SKYDROL RESISTANCE
 CONNECTOR: TMC FEMALE (OPTIONAL: SMA, N, BNC, TNC)

ENVIRONMENTAL:

TEMPERATURE: -67°F TO +185°F [-55°C TO +85°C]
 ALTITUDE: 70,000 ft.
 VIBRATION: 10 G's
 LEAKAGE: HERMETICALLY SEAL

FEDERAL & MILITARY SPECIFICATIONS:

FAA TSO C160a, FAA TSO-C144, DO-160D (ENV/EMI), DO-228 (ENV/EMI), MIL-C-5541F, MIL-PRF-39012 (CONN), MIL-STD-810G (ENV/EMI), MIL-HDBK-5400 (ELEC), MIL-STD-464C (ELEC MAG), MIL-STD-130N-1 (ID), MIL-STD-889B (METAL), RCC-319-14 (TERMINATION), RCC-324-01(SAFETY), SAE J1455 (AUTO), MIL-STD-1472 (DOD), MIL-I-45208A, AND NAS411-1 (HAZ)

SIZE:	START FREQ. (GHz):	STOP FREQ. (GHz):	DC BLOCK/LIMITTER:	LNA OPTION (Rx ONLY):
1: 2" SQ.	0.22, 0.31, 0.35, 0.37,	0.31, 0.35, 0.37, 0.40,	DL: WITH DC BLOCK	A: WITH 12 dB LNA
1.9: 1.9" SQ.	0.40, 0.42, 0.45, 0.47,	0.41, 0.42, 0.45, 0.47,	& WITH LIMITTER	A2: WITH 20 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 OR LIMITTER	
3B: 3in BLADE	1.99, 2.40, 2.70	1.99, 2.50, 2.70		
5B: 5in Blade, 53: Rod	X . XX	Y . YY		

P/N: 3B-0.70-2.70V-XT-X

CABLE'S LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
N: WITH MAG. MOUNT	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
R: CABLE LENGTH (IN)	N: N/A-Bulkhead	-3: CAMO GREEN #34094 PER FED-STD-595B
R: RIGHT ANGLE CON.	T: TB; TNC; TNC- Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
	BNC; BNC	-5: DESERT TAN #33446 PER FED-STD-595B

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

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

TOLERANCE SW PER ANSI Y14.5 REMOVE ALL BORES BREAK EXTERNAL EDGES .005 TO .015 SREVE THREADS PER MIL-C-8879 DIAL IN A COMMON & .0005 MACHINED SURFACES .002

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA

OUTLINE DRAWING
VIDEO/DATA LINK ANTENNA

DATE	BY	CHKD BY	SHRVD BY	REV
April-26-10	S. HUYNH			
April-28-10	S. HUYNH			
April-12-16	S. HUYNH			
April-12-16	P. TRAN			
April-12-16	S. HUYNH			
April-12-16	S. HUYNH			

SCALE 1/1 SHEET 1 OF 1