



FAN BEAM UHF/L/S/C-Band ANTENNA

P/N: 5CR-2.4-5.8P-96S-4 Rev A

For Cellular, PCS, 2G, 3G, 4G, CDMA, GSM, Wi-Fi & UMTS Applications



ISO 9001:2008/FAA Approved Facility

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

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REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

SPECIFICATIONS

ELECTRICAL:

	GSM/PCS/L-BAND (800-1990)	L/S-BAND (1610-2400)	S-BAND (2400-2500)	C-BAND (4400-5850)
FREQUENCY (MHz):	(1332-1540) [(1610-1850)]	(1610-2400)	(2400-2500)	(4400-5850)
PATTERN:	FAN BEAM			
POLARIZATION:	VERTICAL			
ANTENNA GAIN :	> 2 dB		> 5 dB	> 8 dB
VSWR:			2.0:1	
OUTPUT IMPEDANCE:	50 Ω		50 Ω	
POWER HANDLING:	100 watts (Without LNA)			
LNA OPTION:	GAIN: 20 dB, NF: 4.1 dB, OP1dB: +18dB, OIP3: +33dB DC: (5 to 24) Volt @ <70mA			

MECHANICAL:

SIZE: WIDTH: 3.773in [95.8mm], DEPTH: 2.005in [50.9mm]
HEIGHT: 5.122in [130mm]

WEIGHT: 5.6 oz. (159g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL, BASE IRIDITE PER MIL-C-5541F

COLOR: LUSTERLESS GRAY #36320 PER FED-STD-595B
GLOSS WHITE #17925 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
THERMOSET PLASTIC RADOME, UV, ABRASION AND SKYDROL RESISTANCE

CONNECTOR: SMA FEMALE
(OPTION: SMA, TNC, N, BNC AND OTHERS)

ENVIRONMENTAL:

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

FEDERAL & MILITARY SPECIFICATIONS:

DESIGN TO: DO-160D, MIL-C-5541, MIL-E-5400, MIL-I-45208A, AND MIL-STD-810E

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CONFIGURATION:	FREQUENCY:	LNA:	CABLE'S LENGTH:	CONNECTOR:	COLOR:
S2: WITH 1.75IN DIA. FLANGE	0.31-0.40: (310-400) MHz	A: WITH +20 dB LNA	X: NO CABLE	S: SMA FEMALE	-1: GLOSS WHITE #17925 PER FED-STD-595B
S: WITHOUT FLANGE	0.35-0.40: (350-400) MHz	P: WITHOUT LNA	M: WITH MAG. MOUNT	SM: SMA MALE	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
	0.40-0.45: (400-450) MHz		#: CABLE LENGTH (IN)	T: TNC FEMALE	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
	0.81-0.96: (810-960) MHz		R: RIGHT ANGLE CON.	TM: TNC MALE	-4: Natural Back Color from Ultem 2200 Black (20% Glass)
	0.85-1.90: (850-1900) MHz			N: N FEMALE; B: BNC FEMALE	-5: DESERT TAN #33446 PER FED-STD-595B
	1.33-1.54: (1332-1540) MHz			NM: N MALE; BN: BNC MALE	
	1.61-1.85: (1610-1850) MHz				
	1.61-2.50: (1610-2500) MHz				
	2.40-2.50: (2400-2500) MHz				
	4.40-5.85: (4400-5850) MHz				
	X.XX - Y.YY: (X.XX - Y.YY) GHz				

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QUANTITY REQD	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	ANTCOM CORP.
FRACTIONS: DECIMALS: ANGLES: ± 1/64 .xxx ± 1° .xxx± .005 ± 1°	TORRANCE CALIFORNIA
TOLERANCE SYM PER ANSI Y14.5	UHF, GSM/PCS/L-BAND, L/S, S
REMOVE ALL BURRS BREAK EXTERNAL EDGES .005 TO .015 FILLET R .005 TO R .030 SCREW THREADS PER MIL-S-8879 DIA'S ON A COMMON .25±.005	C-BAND FAN BEAM ANTENNA
MACHINED SURFACES	
DO NOT SCALE DRAWING	

DATE	BY	CHKD BY	DRWG NO	REV
June-03-13	S. HUYNH		5CR-2.4-5.8P-96S-4	A
June-03-13	S. HUYNH			

NMO Connector Option is Now Available for Some Antennas