



FAA Approved Facility

(140-500, 410-470, 225-500, 800-1900, 2500, 5600) MHz, VHF/UHF/GSM/PCS/L/S/C-Band Antenna,

P/N: 5R, 10R, 18R SERIES, 5", 10", 18" Tall Ruggedized/Fire Retardant Dipoles

P/N Suffix Options Add on: "-GN" for Goose Neck, "-SL" for Spring Loaded, "-MF" for Mounting Flange, "-SL-MF" for Spring Loaded/Mounting Flange

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



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SMA-MALE
5/8-27 UNS-2A
FEMALE THREADS
TO ANTENNA PORT

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5/8-27 UNS-2A
FEMALE THREADS
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Integrated Block
Gooseneck/Cable
Adaptor:
-19: 19in
-13: 13in
-6: 6in

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TN Male Connector
P/N: Gooseneck-SN-19
P/N: Gooseneck-SN-13
P/N: Gooseneck-SN-6

TNC Male Connector
(Other Options are Available)

X (in)
RG316
Block Cable
Extension

P/N: Gooseneck-XST-19
P/N: Gooseneck-XST-13
P/N: Gooseneck-XST-6

For SMA MALE, P/N: Gooseneck-XSS-19, -13, -6

5/8-27 Female Flange
Mount Option
P/N: AD-118E

5/8-27 Male Flange
Mount Option
P/N: AD-128E

.781 [19.84]

Ø1.750 [Ø44.45]

5/8-27 UNS-2A
Threads

3xØ.171 [Ø4.34] Thru.

Ø1.250 [Ø31.75] B.C.

A

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18R SERIES
<18in (457mm)

10R SERIES
<10in (254mm)

5R SERIES
<5.2in (132mm)

1 in (25.4mm)

.300 [7.62]
5/8-27 UNS-2A
MALE THREADS

SMA-FEMALE CONNECTOR

5/8-27 UNS-2A MALE THREADS

Ø.1131 [Ø28.73]

Ø.416 [Ø10.57]

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SPECIFICATIONS

ELECTRICAL:

ANTENNA TYPES:	18R SERIES	10R SERIES	5R SERIES
FREQUENCY (MHz):	(140-500)	(225-500)	(410-470, or 800-1900, 2500, 5600)
PATTERN:	OMNIDIRECTIONAL		
POLARIZATION:	VERTICAL		
ANTENNA GAIN :	UNITY	UNITY	> 2 dB
VSWR:	(3.5-2.0):1	(3.5-2.0):1	2.0:1
OUTPUT IMPEDANCE:	50 Ω		
POWER HANDLING:	100 watts		
LNA OPTION:	GAIN: 20 dB, NF: 1.4-4.1 dB, OP1dB: +18dB, OIP3: +33dB DC: (5 to 24) Volt @ <70mA		

MECHANICAL:

SIZE: DIAMETER: TOP/BOTTOM = 1.131in [28.73 mm], CENTER = 1in [25.4mm]
HEIGHT: 5R SERIES = 5.2in [132mm], 10R SERIES = 10in [254mm],
18R SERIES = 18in [457mm]

WEIGHT: 5R SERIES: 4oz. (113g); 10R SERIES: 6oz. (170g);
18R SERIES: 11oz. (311g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE BLACK ANODIZE PER MIL-A-8625F, Type II Class II
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,
SKYDROL RESISTANCE, FIRE RETARDANT

CONNECTOR: SMA, TNC, or N
(OTHERS OPTIONS ARE AVAILABLE)

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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REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROV

REVISIONS

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QUANTITY RECD

DESCRIPTION

PART NO

SPECIFICATION

MATERIAL

FINISH

ITEM NO

PARTS LIST

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
± 1/64 .xxx ± .015 ± 1°
.xxx .005 ± 1°

TOLERANCE SYM PER ANSI Y14.5

CHECKED

REMOVE ALL BURRS
BREAK EXTERNAL EDGES .005 TO .015
FILLET'S R .005 TO R .030
Screw THREADS PER UNF-3-8879
DIA'S ON A COMMON & .25 ± .005
MACHINED SURFACES .25

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA

VHF, UHF, L, S, and C-BAND
RUGGEDIZED DIPOLE ANTENNA

APPROVED S. HUYNH
Dec-01-11

SIZE CASE NO DRAWING NO
D 3CVE1XXR-XXX-YYYP-XS-x A

CAD FILE NO SCALE 1/1 SHEET 1 OF 1

P/N: 10R-225-500P-XS-5

P/N: 18R-225-500P-XTM-5
UHF DIPOLE ANTENNA

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NMO Connector Option is Now Available for Some Antennas