



(4.8 - 6.8) GHz Fan Beam Antenna, P/N: 52-4.8-6.8V-F-XS-2 (Gray)

for 802.11RF Ranging, and Video/Data link Applications

Other Frequencies, Connector and Color (-4: Black, -1: White) Options are Available



ISO 9001:2008/FAA Approved Facility

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

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**BEAM DIRECTION**

4.425 [112.39]

0.57" [14.53] (TNC),  
0.72" [18.29] (N, N-Bulkhead)  
0.46" [11.68] (SMA),  
0.83" [21.00] (TNC-Bulkhead)

Optional Mounting:  
3X 8-32 UNC-2B,  
0.200" Deep,  
120° Apart on  
1.088" Radius; &  
ADHESIVE GASKET

NAMEPLATE

O-RING GROOVE  
MS28775-024

DATE STAMP

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

3X  $\phi$ .180 [ $\phi$ 4.57] Thru.  
 $\surd$   $\phi$ 0.332"x82"  
for 8-32 Mounting Screws,  
120° Apart on  
1.088" Radius

$\phi$ 2.600 [ $\phi$ 66.04]  
 $\phi$ 1.750 [ $\phi$ 44.45]

**SPECIFICATIONS**

ZONE	REV	DESCRIPTION	DATE	APPROVED

**ELECTRICAL:**

FREQUENCY:	(4800 - 6800) MHz
RADIATION PATTERN:	FAN BEAM
POLARIZATION:	VERTICAL
VSWR:	< 2.0:1
GAIN (dB):	8 dBi
Elevation Beam Width (3dB):	30 °
Azimuth Beam Width (3dB):	140 °
X-POL LEVEL:	-16 dB
IMPEDANCE:	50 Ohms
POWER HANDLING:	200 Watt
DC GROUNDING:	YES (LIGHTNING PROTECTION)

**MECHANICAL:**

SIZE: DIAMETER = 2.60 in. [ 66.04 mm]  
HEIGHT = 4.425 in. [112.39 mm]

WEIGHT: 4.00 oz. (113 g)

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 FEMALE  
(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

3	1	1
MOUNTING SCREWS: 8-32 82 ° Flat Head, 1/2"	ADHESIVE GASKET	O-RING
91500A194	12346G-3M-3G	MS28775-024
-	-	-

QUANTITY REQD	DESCRIPTION	PARTS LIST	PART NO	FINISH	TRN

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
TOLERANCES ARE:  
FRACTIONS .005 TO .015 ANGLES  
DECIMALS .005 .015 .030 .060 .125 .250 .500 .005 .005  
 $\pm$  1/64 .002 .005 .010 .020 .040 .080 .160 .320 .640 .125 .250 .500 .005 .005

RELIEVE ALL SHARP  
BREAK EXTERNAL EDGES .005 TO .015  
FILED .005 TO .015 .005  
SCREW THREADS PER MIL-C-8879  
DATA ON A COMMON & .005  
MACHINED SURFACES 125

DO NOT SCALE DRAWING

SCALE 1/1

SHEET 1 OF 1

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

P/N: 52-4.8-6.8V-F-XS-4

NMO Connector Option is Now Available for Some Antennas