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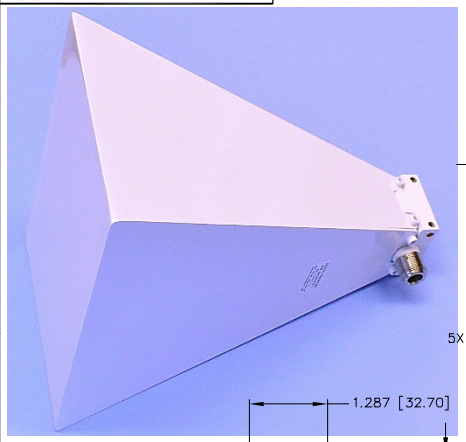

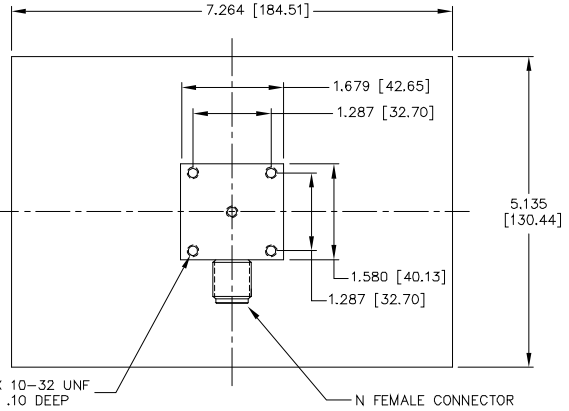

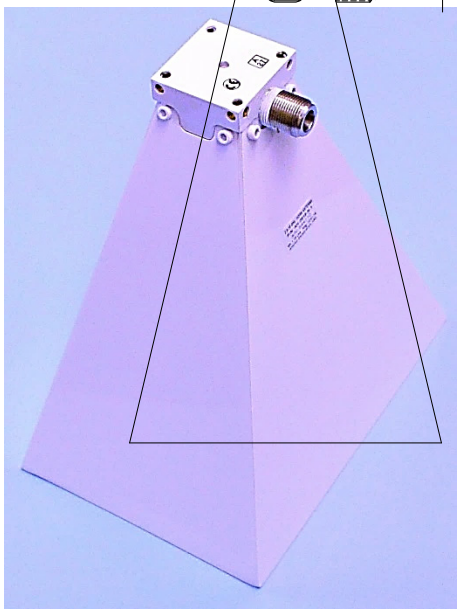

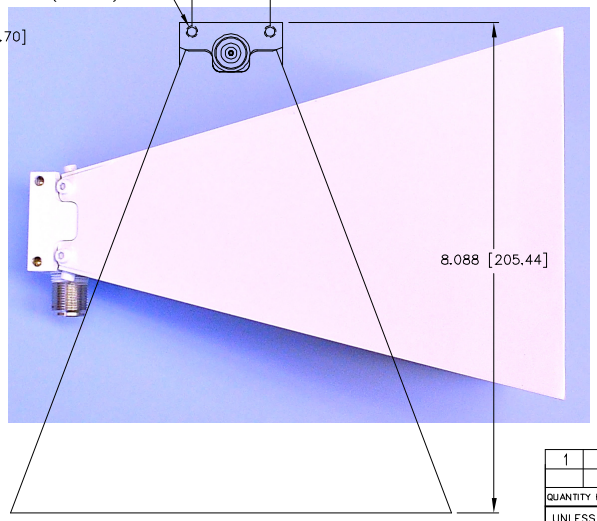

SPECIFICATIONS

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED

ELECTRICAL:

FREQUENCY (GHz):	(0.800 - 18.0)	
POLARIZATION:	LINEAR	
VSWR:	2.5:1	
FREQUENCY:	GAIN (dBIL)	BEAM WIDTH (3dB)
0.800 GHz:	-7.3	130°
0.824 GHz:	+0.1	120°
0.850 GHz:	+2.0	110°
0.900 GHz:	+2.9	110°
0.950 GHz:	+7.4	85°
1.700 GHz:	+7.8	75°
1.800 GHz:	+8.1	60°
1.900 GHz:	+8.0	60°
2.000 GHz:	+9.5	60°
2.100 GHz:	+9.7	55°
2.200 GHz:	+10.7	50°
2.300 GHz:	+10.4	50°
2.400 GHz:	+8.4	45°
2.500 GHz:	+6.2	45°
2.600 GHz:	+8.0	45°
2.700 GHz:	+7.9	45°
4.000 GHz:	+9.3	35°
4.500 GHz:	+9.6	40°
5.000 GHz:	+9.5	40°
5.500 GHz:	+9.4	27°
6.000 GHz:	+10.3	32°
8.000 GHz:	+10.5	48°
10.00 GHz:	+11.3	36°
12.00 GHz:	+11.4	14°
14.00 GHz:	+13.6	14°
16.00 GHz:	+12.5	11°
18.00 GHz:	+11.0	9°
OUTPUT IMPEDANCE:	50 Ω	
POWER HANDLING:	100 watts	

MECHANICAL:

SIZE:	WIDTH: 7.264 in [184.51 mm], HEIGHT: 5.135 in [130.44 mm] LENGTH: 8.088 in [205.44 mm]
WEIGHT:	16 oz. (354 g)
FINISH:	SKYDROL RESISTANT POLYURETHANE ENAMEL, BASE IRIDITE PER MIL-C-5541F
MATERIAL:	6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT
CONNECTOR:	N FEMALE (OPTION: SMA, TNC, BNC AND OTHERS)

ENVIRONMENTAL:

TEMPERATURE:	-67°F TO +302°F [-55°C TO +150°C]
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

P/N: AH-0818-N-X

CONNECTOR:	COLOR:
S: SMA FEMALE	-1: GLOSS WHITE #17925 PER FED-STD-595B
SM: SMA MALE	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
T: TNC FEMALE	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
TM: TNC MALE	-4: Natural Back Color from Ultem 2200 Black (20% Glass)
N: N FEMALE; B: BNC FEMALE	-5: DESERT TAN #33446 PER FED-STD-595B
NM: N MALE; BN: BNC MALE	

ITEM NO	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	QUANTITY REQD
1			–	–	–	1

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS ± 1/64 DECIMALS .XX± .015 .XXX± .005 ANGLES ± 1°
TOLERANCE SYM PER ANSI Y14.5
REMOVE ALL BURRS
BREAK EXTERNAL EDGES .005 TO .015
FILLETS R .005 TO R .030
SCREW THREADS PER MIL-S-8879
DIA'S ON A COMMON ℄ ⌀.005
MACHINED SURFACES 125

ORIGINALLY DRAWN	S. HUYNH	Feb-18-16
ORIGINALLY DESIGNED	S. HUYNH	Feb-18-16
UPDATED	S. HUYNH	Feb-18-16
UPDATE DRAWN	P. TRAN	Feb-18-16
APPROVED	S. HUYNH	Feb-18-16

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA

(0.8- 18) GHz
HORN ANTENNA

SIZE	CAGE NO	DRAWING NO	REV
D	3CVE1	AH-0818-N-X	

SCALE 1/1 SHEET 1 OF 1