

Special Application Antennas



58135 Horn Antenna

- Capable of working over a frequency range of 1400 - 2300 MHz
- Linear polarization, vertical or horizontal; input power 100 watts, CW
- 1.75 to 1 VSWR
- Gain of 13.3 to 15.8 dBi
- 150 mph (240 km/h) wind survival

55070 Airborne Antenna

- Available in specific bandwidths covering frequency ranges from 0.8 to 13 GHz
- Vertical polarization; average power rating 50 watts CW
- Gain of 5 dBi; omnidirectional radiation pattern
- Low silhouette design minimizes drag to withstand high air speeds

58200, 19050 Discone Antenna

- Frequency coverage from 215 to 2600 MHz
- Vertical polarization; input power 400 to 1500 watts CW
- 2 to 1 VSWR
- Nominal gain at 2.0 dBi
- 150 mph (240 km/h) wind survival

58700 Omnidirectional Antenna

- Available in various bands from 1400 to 3000 MHz
- Vertically polarized; input power 50 watts CW
- 1.5 to 1 VSWR
- Nominal gain at 8 dBi
- 150 mph (240 km/h) wind survival

55305, 60116, 60117 Helical Antenna

- Available in two frequency ranges: 1600 to 2000 MHz and 2100 to 2300 MHz
- Circular polarization
- 1.5 to 1 VSWR
- Gain ranging from 13 to 15 dBi
- Enclosed in a rugged radome for protection from environmental elements

63305A-5 and 63305A-6 Bifilar Helical Antenna

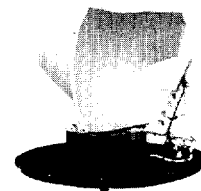
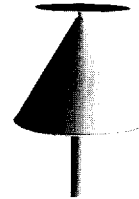
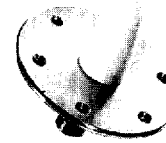
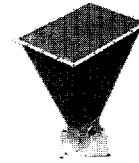
- Operates in the 245 to 315 MHz band
- Right hand or left hand circular polarization
- 1.5 to 1 VSWR
- Rugged, field transportable
- Collapsible tripod mount
- Optional motorized polar ground mount

171888 and 172315X Direction Finding Antennas

- 171888-Adcock array for VHF/UHF in 3 sub-bands, 20 - 100 MHz
- 172315X-Linear and slant linear polarization in 2 sub-bands, 0.5 - 2 GHz and 2 - 18 GHz
- Sector scan and variable rotation speed of up to 200 rpm for microwave DF system
- Environmentally protected in an integral radome

172601 through to 172608 Broadband High Power Antennas

- Available in various bands from 120 MHz to 18 GHz
- Peak power rating of 4 kW at 120 MHz to 2.5 kW at 18 GHz
- Nominal gain from 12 dBi at 120 MHz to 31 dBi at 12 GHz
- Selectable LH and RH circular polarization



Government Antenna Systems



Type No.	Gain Freq GHz	Polarization	Wind Nom. dBi	VSWR	Survival mph (km/h)	Input	Dimensions, in (mm)		
							Length	Width	Height
Horn									
58135	1.4-2.3	Lin., V/H	13.3	1.75	125(200)	N Jack	20 (508)	16 (406)	11 (279)
Airborne									
55070-03	0.39-0.40	Lin., V	5.0	1.3	600 (965)	N Jack	7.23 (184)	3.13 (80)	0.69 (18)
55070-09	0.880-0.920	Lin., V	5.0	1.3	600 (965)	N Jack	3 (76)	3.13 (80)	0.69 (18)
55070-10	1.01-1.125	Lin., V	5.0	1.5	600 (965)	N Jack	2.63 (67)	3.13 (80)	0.69 (18)
55070-13	1.27-1.37	Lin., V	5.0	1.3	600 (965)	N Jack	2.16 (55)	3.13 (80)	0.69 (18)
55070-14	1.435-1.54	Lin., V	5.0	1.3	600 (965)	N Jack	1.84 (46)	3.13 (80)	0.69 (18)
55070-15	1.575	Lin., V	5.0	2.0	600 (965)	N Jack	2.06 (52)	3.13 (80)	0.69 (18)
55070-17	1.70-1.85	Lin., V	5.0	1.3	600 (965)	N Jack	1.78 (45)	3.13 (80)	0.69 (18)
55070-17A	1.7-2.3	Lin., V	5.0	1.3	600 (965)	N Jack	1.78 (45)	3.13 (80)	0.69 (18)
55070-18	1.8-2.1	Lin., V	5.0	1.5	600 (965)	N Jack	1.78 (45)	3.13 (80)	0.69 (18)
55070-21	2.1-2.3	Lin., V	5.0	1.3	600 (965)	N Jack	1.78 (45)	3.13 (80)	0.69 (18)
55070-23	2.335-2.385	Lin., V	5.0	1.3	600 (965)	N Jack	1.78 (45)	3.13 (80)	0.69 (18)
55070-25	2.5-2.7	Lin., V	5.0	1.3	600 (965)	N Jack	1.75 (44)	3.13 (80)	0.69 (18)
55070-27	2.7-3.0	Lin., V	5.0	1.3	600 (965)	N Jack	1.28 (33)	3.13 (80)	0.69 (18)
55070-44	4.4-5.0	Lin., V	5.0	1.3	600 (965)	N Jack	0.91 (23)	3.13 (80)	0.69 (18)
55070-50	5.0-5.4	Lin., V	5.0	1.3	600 (965)	N Jack	0.91 (23)	3.13 (80)	0.69 (18)
55070-54	5.4-6.0	Lin., V	5.0	1.3	600 (965)	N Jack	0.91 (23)	3.13 (80)	0.69 (18)
55070-64	6.4-7.0	Lin., V	5.0	1.3	600 (965)	N Jack	1.03 (26)	3.13 (80)	0.69 (18)
55070-66	6.6-7.3	Lin., V	5.0	1.5	600 (965)	N Jack	0.91 (23)	3.13 (80)	0.69 (18)
55070-121	12.1-13.2	Lin., V	5.0	1.5	600 (965)	N Jack	0.38 (10)	3.13 (80)	0.69 (18)
Discone									
58200-14	1.435-2.3	Lin., V	2.0	2.0	125 (200)	N Jack	12.5 (318)	3 (76) diameter	
19050-2	0.215-0.420	Lin., V	2.0	2.0	100 (160)	7/8" EIA	13 (330)	16 (406) diameter	
19050-3	0.4-1.0	Lin., V	2.0	2.0	100 (160)	7/8" EIA	14 (356)	10.5 (267) diameter	
19050-4	0.5-1.55	Lin., V	2.0	2.0	100 (160)	7/8" EIA	14 (356)	9 (229) diameter	
Omnidirectional									
58700-14	1.435-1.54	Lin., V	8.0	1.5	125 (200)	N Jack	36 (914)	3.5 (89) diameter	
58700-21	2.1-2.3	Lin., V	8.0	1.5	125 (200)	N Jack	27 (686)	3.5 (89) diameter	
58700-25	2.5-2.7	Lin., V	8.0	1.5	125 (200)	N Jack	23 (584)	3.5 (89) diameter	
Helical									
55305-1,-3,-5	2.1-2.3	RH circ.	15	1.5	125 (200)	N Jack	17 (432)	3.4 (86) diameter	
55305-2,-4,-6	2.1-2.3	LH circ.	15	1.5	125 (200)	N Jack	17 (432)	3.4 (86) diameter	
60112-1,-3,-5	0.70-0.85	RH circ.	12	2.1	125 (200)	N Jack	30 (762)	6 (152) diameter	
60112-2,-4,-6	0.70-0.85	LH circ.	12	2.1	125 (200)	N Jack	30 (762)	6 (152) diameter	
60114-1,-3,-5	1.06-1.44	RH circ.	12	1.5	125 (200)	N Jack	27 (686)	5 (127) diameter	
60114-2,-4,-6	1.06-1.44	LH circ.	12	1.5	125 (200)	N Jack	27 (686)	5 (127) diameter	
60115-1,-3,-5	1.4-1.55	RH circ.	13	1.5	125 (200)	N Jack	16 (406)	3.4 (86) diameter	
60115-2,-4,-6	1.4-1.55	LH circ.	13	1.5	125 (200)	N Jack	16 (406)	3.4 (86) diameter	
60116-1,-3,-5	1.6-2.0	RH circ.	13	1.5	125 (200)	N Jack	16 (406)	3.4 (86) diameter	
60116-2,-4,-6	1.6-2.0	LH circ.	13	1.5	125 (200)	N Jack	16 (406)	3.4 (86) diameter	
60117-1,-3,-5	2.1-2.3	RH circ.	13	1.5	125 (200)	N Jack	12 (305)	3.4 (86) diameter	
60117-2,-4,-6	2.1-2.3	LH circ.	13	1.5	125 (200)	N Jack	12 (305)	3.4 (86) diameter	
60118-1,-3,-5	2.5-3.0	RH circ.	14	1.5	125 (200)	N Jack	12 (305)	3.4 (86) diameter	
60118-2,-4,-6	2.5-3.0	LH circ.	14	1.5	125 (200)	N Jack	12 (305)	3.4 (86) diameter	
(-1 and -2 no mount, -3 and -4 13550 mounting adaptor, -5 and -6 51930A manual mount, 2" IPS pipe, mounting adaptor.)									
Bifilar Helical									
63305A-1,-3,-5	0.245-0.315	RH circ.	12.5	1.5	100 (160)	N Jack	122 (3099)	39 (991) diameter	
63305A-2,-4,-6	0.245-0.315	LH circ.	12.5	1.5	100 (160)	N Jack	122 (3099)	39 (991) diameter	
(-1 and -2 no mount, -3 and -4 54157 mount for 4" IPS pipe, -5 and -6 51930 manual mount with 62280 tripod)									
DF Antenna									
171888	0.02-0.1	Lin., V	-	11.0	100 (160)	N Jack	78 (1980)	60 (1524) diameter	
(4 array element)	0.1-0.5	Lin., V	-	7.0	100 (160)	N Jack	18 (457)	12 (305) diameter	
	0.5-1.0	Lin., V	-	7.0	100 (160)	N Jack	8 (203)	6 (152) diameter	
	0.5-2.0	Lin., Slant	4	3.0	100 (160)	N Jack	17 (432)	19 (483) diameter	
172315X	2.0-18.0	Lin., Slant	15	3.0	100 (160)	N Jack	17 (432)	19 (483) diameter	