

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

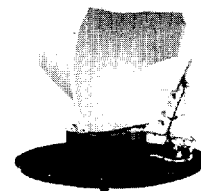
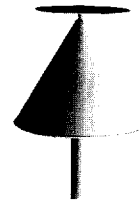
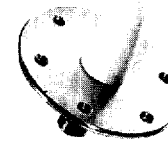
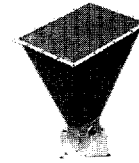
- Operates in the 245 to 315 MHz band
- Right hand or left hand circular polarization
- 1.5 to 1 VSWR
- Rugged, field transportable
- Collapsible tripod mount
- Optional motorized polar ground mount

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



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 | |
| | 172315X | 0.5-2.0 | Lin., Slant | 4 | 3.0 | 100 (160) | N Jack | 17 (432) | 19 (483) diameter |
| | 2.0-18.0 | Lin., Slant | 15 | 3.0 | 100 (160) | N Jack | 17 (432) | 19 (483) diameter | |

