

NICOM BKG-88
1-Bay Circularly Polarized FM Antenna



Frequency =

| |
|-------|
| 100.1 |
| 109.2 |

 Mhz
Interfering Contour

| |
|-------------|
| dBu (50,10) |
|-------------|

ERP=

| |
|---|
| 4 |
|---|

 watts
Height =

| |
|----|
| 22 |
|----|

 m AGL

| Depression Angle | Relative Field (o) | Effective Power (w) | Distance to Contour (m) | Distance from Antenna to Ground (m) | Clearance (m) |
|------------------|--------------------|---------------------|-------------------------|-------------------------------------|---------------|
| 1 | 1.000 | 4.0 | 48.64 | 1,260.57 | 1212 |
| 2 | 1.000 | 4.0 | 48.64 | 630.38 | 582 |
| 3 | 0.999 | 4.0 | 48.60 | 420.36 | 372 |
| 4 | 0.999 | 4.0 | 48.60 | 315.38 | 267 |
| 5 | 0.999 | 4.0 | 48.60 | 252.42 | 204 |
| 6 | 0.999 | 4.0 | 48.60 | 210.47 | 162 |
| 7 | 0.995 | 4.0 | 48.40 | 180.52 | 132 |
| 8 | 0.991 | 3.9 | 48.21 | 158.08 | 110 |
| 9 | 0.987 | 3.9 | 48.03 | 140.63 | 93 |
| 10 | 0.982 | 3.9 | 47.77 | 126.69 | 79 |
| 11 | 0.977 | 3.8 | 47.53 | 115.30 | 68 |
| 12 | 0.970 | 3.8 | 47.18 | 105.81 | 59 |
| 13 | 0.966 | 3.7 | 46.99 | 97.80 | 51 |
| 14 | 0.960 | 3.7 | 46.70 | 90.94 | 44 |
| 15 | 0.954 | 3.6 | 46.41 | 85.00 | 39 |
| 16 | 0.947 | 3.6 | 46.07 | 79.82 | 34 |
| 17 | 0.941 | 3.5 | 45.77 | 75.25 | 29 |
| 18 | 0.934 | 3.5 | 45.43 | 71.19 | 26 |
| 19 | 0.926 | 3.4 | 45.04 | 67.57 | 23 |
| 20 | 0.918 | 3.4 | 44.66 | 64.32 | 20 |
| 21 | 0.910 | 3.3 | 44.27 | 61.39 | 17 |
| 22 | 0.900 | 3.2 | 43.78 | 58.73 | 15 |
| 23 | 0.891 | 3.2 | 43.34 | 56.30 | 13 |
| 24 | 0.881 | 3.1 | 42.86 | 54.09 | 11 |
| 25 | 0.872 | 3.0 | 42.42 | 52.06 | 10 |
| 26 | 0.862 | 3.0 | 41.93 | 50.19 | 8 |
| 27 | 0.852 | 2.9 | 41.44 | 48.46 | 7 |
| 28 | 0.840 | 2.8 | 40.86 | 46.86 | 6 |
| 29 | 0.829 | 2.7 | 40.33 | 45.38 | 5 |
| 30 | 0.818 | 2.7 | 39.79 | 44.00 | 4 |
| 31 | 0.806 | 2.6 | 39.21 | 42.72 | 4 |
| 32 | 0.795 | 2.5 | 38.67 | 41.52 | 3 |
| 33 | 0.783 | 2.5 | 38.09 | 40.39 | 2 |
| 34 | 0.771 | 2.4 | 37.50 | 39.34 | 2 |
| 35 | 0.758 | 2.3 | 36.87 | 38.36 | 1 |
| 36 | 0.745 | 2.2 | 36.24 | 37.43 | 1 |
| 37 | 0.732 | 2.1 | 35.61 | 36.56 | 1 |
| 38 | 0.719 | 2.1 | 34.98 | 35.73 | 1 |
| 39 | 0.706 | 2.0 | 34.34 | 34.96 | 1 |
| 40 | 0.691 | 1.9 | 33.61 | 34.23 | 1 |
| 41 | 0.676 | 1.8 | 32.88 | 33.53 | 1 |
| 42 | 0.661 | 1.7 | 32.15 | 32.88 | 1 |
| 43 | 0.646 | 1.7 | 31.42 | 32.26 | 1 |
| 44 | 0.631 | 1.6 | 30.69 | 31.67 | 1 |
| 45 | 0.616 | 1.5 | 29.96 | 31.11 | 1 |

| Depression Angle | Relative Field | Effective Power (w) | Distance to Contour (m) | Distance from Antenna to Ground (m) | Clearance (m) |
|------------------|----------------|---------------------|-------------------------|-------------------------------------|---------------|
| 46 | 0.600 | 1.4 | 29.19 | 30.58 | 1 |
| 47 | 0.584 | 1.4 | 28.41 | 30.08 | 2 |
| 48 | 0.568 | 1.3 | 27.63 | 29.60 | 2 |
| 49 | 0.553 | 1.2 | 26.90 | 29.15 | 2 |
| 50 | 0.540 | 1.2 | 26.26 | 28.72 | 2 |
| 51 | 0.523 | 1.1 | 25.44 | 28.31 | 3 |
| 52 | 0.508 | 1.0 | 24.71 | 27.92 | 3 |
| 53 | 0.494 | 1.0 | 24.03 | 27.55 | 4 |
| 54 | 0.479 | 0.9 | 23.30 | 27.19 | 4 |
| 55 | 0.465 | 0.9 | 22.62 | 26.86 | 4 |
| 56 | 0.450 | 0.8 | 21.89 | 26.54 | 5 |
| 57 | 0.436 | 0.8 | 21.21 | 26.23 | 5 |
| 58 | 0.421 | 0.7 | 20.48 | 25.94 | 5 |
| 59 | 0.406 | 0.7 | 19.75 | 25.67 | 6 |
| 60 | 0.391 | 0.6 | 19.02 | 25.40 | 6 |
| 61 | 0.376 | 0.6 | 18.29 | 25.15 | 7 |
| 62 | 0.361 | 0.5 | 17.56 | 24.92 | 7 |
| 63 | 0.345 | 0.5 | 16.78 | 24.69 | 8 |
| 64 | 0.329 | 0.4 | 16.00 | 24.48 | 8 |
| 65 | 0.313 | 0.4 | 15.23 | 24.27 | 9 |
| 66 | 0.297 | 0.4 | 14.45 | 24.08 | 10 |
| 67 | 0.282 | 0.3 | 13.72 | 23.90 | 10 |
| 68 | 0.268 | 0.3 | 13.04 | 23.73 | 11 |
| 69 | 0.253 | 0.3 | 12.31 | 23.57 | 11 |
| 70 | 0.230 | 0.2 | 11.19 | 23.41 | 12 |
| 71 | 0.225 | 0.2 | 10.94 | 23.27 | 12 |
| 72 | 0.211 | 0.2 | 10.26 | 23.13 | 13 |
| 73 | 0.199 | 0.2 | 9.68 | 23.01 | 13 |
| 74 | 0.188 | 0.1 | 9.15 | 22.89 | 14 |
| 75 | 0.176 | 0.1 | 8.56 | 22.78 | 14 |
| 76 | 0.166 | 0.1 | 8.07 | 22.67 | 15 |
| 77 | 0.155 | 0.1 | 7.54 | 22.58 | 15 |
| 78 | 0.145 | 0.1 | 7.05 | 22.49 | 15 |
| 79 | 0.138 | 0.1 | 6.71 | 22.41 | 16 |
| 80 | 0.129 | 0.1 | 6.28 | 22.34 | 16 |
| 81 | 0.120 | 0.1 | 5.84 | 22.27 | 16 |
| 82 | 0.115 | 0.1 | 5.59 | 22.22 | 17 |
| 83 | 0.110 | 0.0 | 5.35 | 22.17 | 17 |
| 84 | 0.105 | 0.0 | 5.11 | 22.12 | 17 |
| 85 | 0.103 | 0.0 | 5.01 | 22.08 | 17 |
| 86 | 0.102 | 0.0 | 4.96 | 22.05 | 17 |
| 87 | 0.100 | 0.0 | 4.86 | 22.03 | 17 |
| 88 | 0.102 | 0.0 | 4.96 | 22.01 | 17 |
| 89 | 0.104 | 0.0 | 5.06 | 22.00 | 17 |
| 90 | 0.105 | 0.0 | 0.00 | 22.00 | 22 |

NOTES:
- HEIGHT HAS BEEN REDUCED BY 2 METERS TO ALLOW FOR HUMAN EXPOSURE
- DISTANCE FROM ANTENNA TO GROUND IS ACTUALLY TO A POINT 2 METERS ABOVE GROUND