

DIELECTRIC**G_s****VERTICAL PATTERN**

ANT. TYPE _____

CHANNEL _____ STATION _____

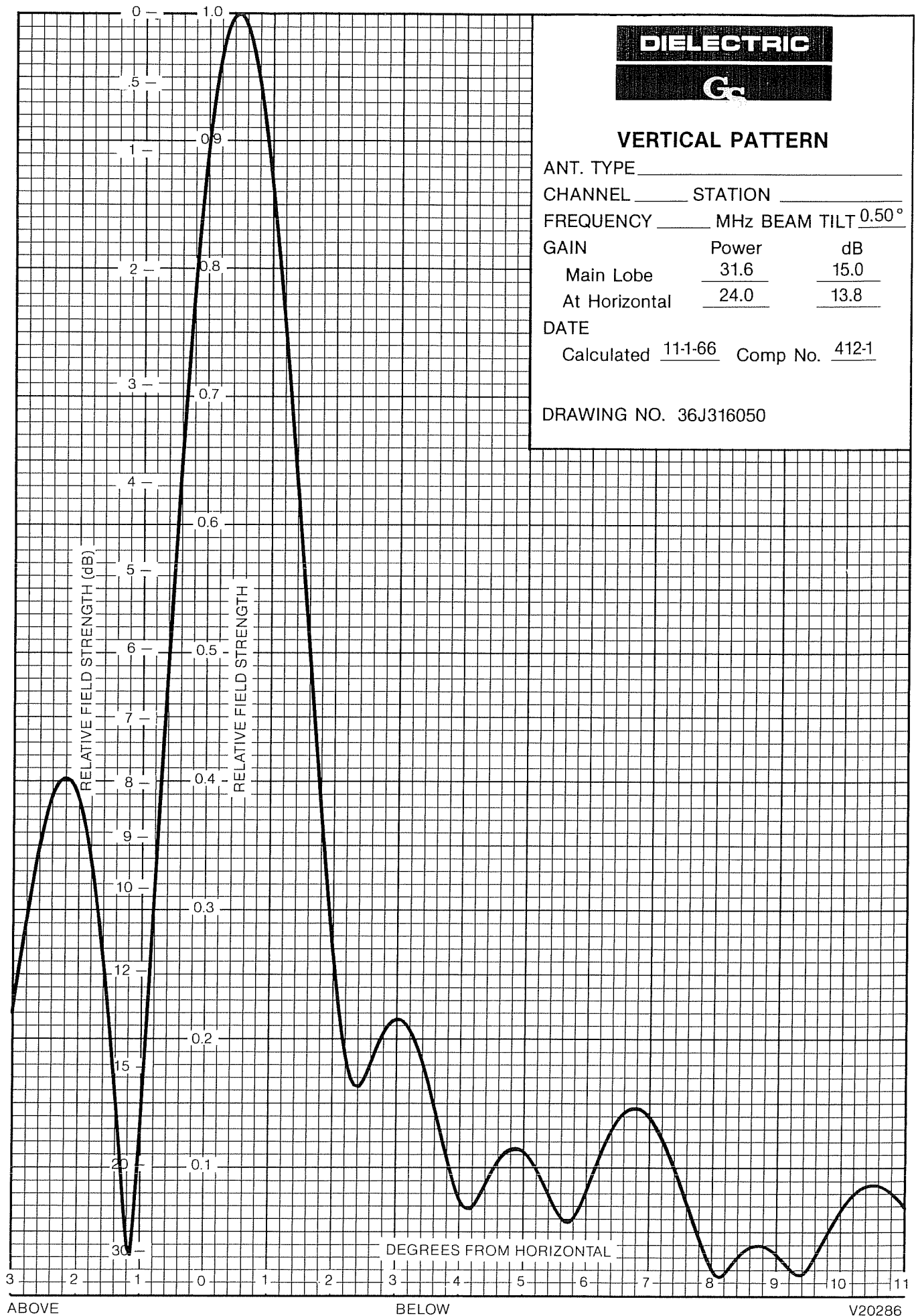
FREQUENCY _____ MHz BEAM TILT 0.50°

| GAIN | Power | dB |
|---------------|-------------|-------------|
| Main Lobe | <u>31.6</u> | <u>15.0</u> |
| At Horizontal | <u>24.0</u> | <u>13.8</u> |

DATE

Calculated 11-1-66 Comp No. 412-1

DRAWING NO. 36J316050



TABULATED DATA FOR VERTICAL PATTERN

Drawing No. 36J316050

| Elev Angle° | Relative Field | dB | Elev Angle° | Relative Field | dB | Elev Angle° | Relative Field | dB | Elev Angle° | Relative Field | dB |
|-------------------------------------|-------------------|--------|-------------------------------------|-------------------|--------|----------------|-------------------|--------|----------------|-------------------|--------|
| - 10° to - 3° In 0.5° Increments | | | 5.4 | .077 | -22.25 | 26.5 | .045 | -27.03 | 58.5 | .051 | -25.85 |
| | | | 5.6 | .060 | -24.48 | 27.0 | .028 | -31.00 | 59.0 | .061 | -24.25 |
| | | | 5.8 | .061 | -24.29 | 27.5 | .017 | -35.37 | 59.5 | .065 | -23.80 |
| -10.0 | .036 | -28.92 | 6.0 | .082 | -21.74 | 28.0 | .026 | -31.72 | 60.0 | .060 | -24.39 |
| -9.5 | .026 | -31.87 | 6.2 | .108 | -19.36 | 28.5 | .028 | -31.12 | 60.5 | .050 | -26.07 |
| -9.0 | .035 | -29.12 | 6.4 | .129 | -17.77 | 29.0 | .018 | -34.91 | 61.0 | .036 | -28.97 |
| -8.5 | .094 | -20.55 | 6.6 | .142 | -16.92 | 29.5 | .015 | -36.29 | 61.5 | .023 | -32.59 |
| -8.0 | .126 | -18.02 | 6.8 | .146 | -16.74 | 30.0 | .027 | -31.53 | 62.0 | .022 | -32.97 |
| -7.5 | .105 | -19.58 | 7.0 | .138 | -17.18 | 30.5 | .029 | -30.76 | 62.5 | .030 | -30.35 |
| -7.0 | .052 | -25.72 | 7.2 | .122 | -18.28 | 31.0 | .020 | -33.80 | 63.0 | .037 | -28.59 |
| | | | | | | | | | | | |
| -6.5 | .064 | -23.83 | 7.4 | .098 | -20.14 | 31.5 | .020 | -33.97 | 63.5 | .039 | -28.14 |
| -6.0 | .087 | -21.20 | 7.6 | .071 | -23.01 | 32.0 | .035 | -29.04 | 64.0 | .036 | -28.94 |
| -5.5 | .059 | -24.65 | 7.8 | .042 | -27.47 | 32.5 | .044 | -27.10 | 64.5 | .028 | -30.93 |
| -5.0 | .080 | -21.96 | 8.0 | .019 | -34.59 | 33.0 | .039 | -28.13 | 65.0 | .022 | -33.19 |
| -4.5 | .150 | -16.50 | 8.2 | .017 | -35.23 | 33.5 | .023 | -32.83 | 65.5 | .024 | -32.26 |
| -4.0 | .156 | -16.16 | 8.4 | .030 | -30.44 | 34.0 | .003 | -49.22 | 66.0 | .035 | -29.10 |
| -3.5 | .114 | -18.84 | 8.6 | .038 | -28.49 | 34.5 | .011 | -39.29 | 66.5 | .047 | -26.57 |
| -3.0 | .221 | -13.12 | 8.8 | .038 | -28.49 | 35.0 | .012 | -38.25 | 67.0 | .056 | -25.00 |
| | | | 9.0 | .031 | -30.28 | 35.5 | .003 | -49.68 | 67.5 | .061 | -24.26 |
| | | | 9.2 | .020 | -34.19 | 36.0 | .018 | -34.90 | 68.0 | .061 | -24.24 |
| - 3° to + 11° In 0.2° Increments | | | | | | | | | | | |
| | | | 9.4 | .016 | -35.79 | 36.5 | .034 | -29.27 | 68.5 | .057 | -24.90 |
| -3.0 | .221 | -13.12 | 9.6 | .031 | -30.25 | 37.0 | .042 | -27.61 | 69.0 | .049 | -26.14 |
| -2.8 | .286 | -10.86 | 9.8 | .049 | -26.14 | 37.5 | .037 | -28.69 | 69.5 | .042 | -27.57 |
| -2.6 | .344 | -9.26 | 10.0 | .066 | -23.60 | 38.0 | .024 | -32.36 | 70.0 | .040 | -28.04 |
| -2.4 | .385 | -8.28 | 10.2 | .078 | -22.11 | 38.5 | .020 | -34.05 | 70.5 | .046 | -26.69 |
| -2.2 | .403 | -7.90 | 10.4 | .085 | -21.43 | 39.0 | .029 | -30.69 | 71.0 | .059 | -24.54 |
| -2.0 | .391 | -8.17 | 10.6 | .085 | -21.43 | 39.5 | .034 | -29.43 | 71.5 | .074 | -22.60 |
| -1.8 | .346 | -9.22 | 10.8 | .079 | -22.10 | 40.0 | .028 | -31.05 | 72.0 | .088 | -21.11 |
| -1.6 | .269 | -11.41 | 11.0 | .067 | -23.42 | 40.5 | .016 | -35.95 | 72.5 | .099 | -20.05 |
| | | | | | | 41.0 | .013 | -37.53 | 73.0 | .107 | -19.39 |
| | | | + 11° to +90° In 0.5° Increments | | | | | | | | |
| -1.4 | .161 | -15.85 | | | | 41.5 | .021 | -33.53 | 73.5 | .111 | -19.08 |
| -1.2 | .037 | -28.62 | | | | 42.0 | .022 | -33.12 | 74.0 | .111 | -19.10 |
| -1.0 | .134 | -17.44 | | | | 42.5 | .015 | -36.41 | 74.5 | .107 | -19.43 |
| - .8 | .298 | -10.50 | 11.0 | .067 | -23.42 | 43.0 | .016 | -35.95 | 75.0 | .099 | -20.07 |
| - .6 | .465 | -6.65 | 11.5 | .039 | -28.11 | 43.5 | .031 | -30.11 | 75.5 | .089 | -21.05 |
| - .4 | .623 | -4.11 | 12.0 | .055 | -25.21 | 44.0 | .044 | -27.13 | 76.0 | .076 | -22.43 |
| - .2 | .763 | -2.35 | 12.5 | .067 | -23.49 | 44.5 | .047 | -26.48 | 76.5 | .061 | -24.30 |
| .0 | .876 | -1.15 | 13.0 | .049 | -26.19 | 45.0 | .040 | -27.92 | 77.0 | .045 | -26.88 |
| .2 | .954 | - .41 | 13.5 | .019 | -34.33 | 45.5 | .025 | -31.97 | 77.5 | .029 | -30.65 |
| | | | | | | | | | | | |
| .4 | .995 | - .05 | 14.0 | .027 | -31.41 | 46.0 | .010 | -39.82 | 78.0 | .014 | -37.07 |
| .6 | .995 | - .04 | 14.5 | .029 | -30.69 | 46.5 | .013 | -37.57 | 78.5 | .006 | -44.01 |
| .8 | .956 | - .39 | 15.0 | .015 | -36.37 | 47.0 | .019 | -34.42 | 79.0 | .018 | -34.98 |
| 1.0 | .883 | -1.08 | 15.5 | .040 | -28.04 | 47.5 | .016 | -35.65 | 79.5 | .030 | -30.35 |
| 1.2 | .780 | -2.16 | 16.0 | .064 | -23.86 | 48.0 | .010 | -40.10 | 80.0 | .042 | -27.61 |
| 1.4 | .657 | -3.65 | 16.5 | .064 | -23.92 | 48.5 | .018 | -35.05 | 80.5 | .051 | -25.81 |
| 1.6 | .523 | -5.63 | 17.0 | .040 | -28.03 | 49.0 | .032 | -29.98 | 81.0 | .059 | -24.57 |
| 1.8 | .391 | -8.17 | 17.5 | .016 | -36.08 | 49.5 | .041 | -27.76 | 81.5 | .065 | -23.72 |
| 2.0 | .273 | -11.29 | 18.0 | .026 | -31.76 | 50.0 | .042 | -27.57 | 82.0 | .070 | -23.15 |
| 2.2 | .189 | -14.46 | 18.5 | .025 | -31.90 | 50.5 | .035 | -29.20 | 82.5 | .072 | -22.82 |
| 2.4 | .162 | -15.79 | 19.0 | .014 | -36.84 | 51.0 | .025 | -32.07 | 83.0 | .073 | -22.68 |
| | | | | | | | | | | | |
| 2.6 | .180 | -14.89 | 19.5 | .030 | -30.44 | 51.5 | .025 | -32.03 | 83.5 | .073 | -22.71 |
| 2.8 | .204 | -13.79 | 20.0 | .044 | -27.21 | 52.0 | .036 | -28.97 | 84.0 | .072 | -22.89 |
| 3.0 | .215 | -13.34 | 20.5 | .038 | -28.34 | 52.5 | .045 | -27.01 | 84.5 | .069 | -23.21 |
| 3.2 | .207 | -13.67 | 21.0 | .024 | -32.33 | 53.0 | .046 | -26.68 | 85.0 | .065 | -23.68 |
| 3.4 | .182 | -14.78 | 21.5 | .034 | -29.40 | 53.5 | .040 | -27.98 | 85.5 | .061 | -24.29 |
| 3.6 | .146 | -16.73 | 22.0 | .048 | -26.45 | 54.5 | .027 | -31.28 | 86.0 | .056 | -25.06 |
| 3.8 | .105 | -19.57 | 22.5 | .044 | -27.17 | 54.5 | .013 | -37.50 | 86.5 | .050 | -26.02 |
| 4.0 | .074 | -22.64 | 23.0 | .024 | -32.38 | 55.0 | .011 | -39.10 | 87.0 | .044 | -27.19 |
| 4.2 | .069 | -23.18 | 23.5 | .005 | -45.34 | 55.5 | .019 | -34.65 | 87.5 | .037 | -28.64 |
| 4.4 | .087 | -21.22 | 24.0 | .015 | -36.38 | 56.0 | .021 | -33.61 | 88.0 | .030 | -30.47 |
| | | | | | | | | | | | |
| 4.6 | .105 | -19.56 | 24.5 | .011 | -39.24 | 56.5 | .016 | -35.88 | 88.5 | .023 | -32.89 |
| 4.8 | .114 | -18.84 | 25.0 | .010 | -39.99 | 57.0 | .009 | -41.12 | 89.0 | .015 | -36.36 |
| 5.0 | .111 | -19.06 | 25.5 | .033 | -29.63 | 57.5 | .018 | -34.70 | 89.5 | .008 | -42.35 |
| 5.2 | .098 | -20.21 | 26.0 | .047 | -26.54 | 58.0 | .036 | -28.99 | 90.0 | .000 | -80.00 |