

WT201 Principle prototype Antenna passive performance test record

Performance summary The efficiency of the 915 frequency band is greater than 55% and the gain is greater than 0dBi, meeting the advanced antenna indicators;

Appearance



Jig



Main Board

S/N

6715D3280810

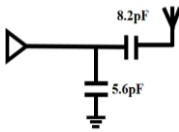
Antenna Size

58×8×1.6 mm³

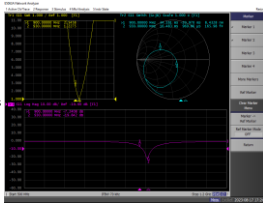
Frequency Band

B915

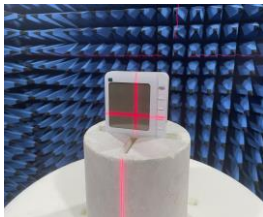
Matching circuit



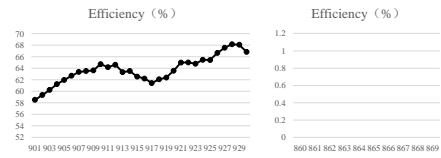
Impedance characteristics



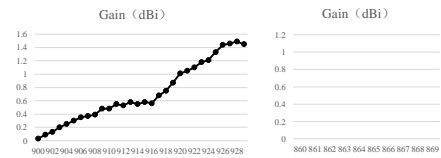
Test chart



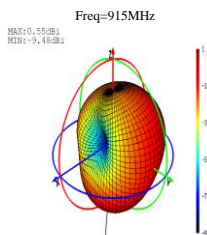
Efficiency



GAIN



Direction Map



TIME: 2023/8/17

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Frequency ID | 900 | 901 | 902 | 903 | 904 | 905 | 906 | 907 | 908 | 909 | 910 | 911 | 912 | 913 | 914 | 915 | 916 | 917 | 918 | 919 | 920 | 921 | 922 | 923 | 924 | 925 | 926 | 927 | 928 | 929 | 930 |
| Gain (dB) | -0.05 | 0.03 | 0.09 | 0.13 | 0.2 | 0.25 | 0.3 | 0.35 | 0.37 | 0.39 | 0.48 | 0.48 | 0.55 | 0.53 | 0.58 | 0.55 | 0.58 | 0.56 | 0.68 | 0.75 | 0.87 | 1.03 | 1.05 | 1.1 | 1.18 | 1.21 | 1.33 | 1.44 | 1.46 | 1.49 | 1.45 |
| Efficiency (dB) | -2.41 | -2.33 | -2.26 | -2.2 | -2.13 | -2.08 | -2.03 | -1.98 | -1.97 | -1.96 | -1.89 | -1.89 | -1.9 | -1.98 | -1.97 | -2.04 | -2.06 | -2.12 | -2.07 | -2.05 | -1.97 | -1.87 | -1.87 | -1.89 | -1.84 | -1.84 | -1.76 | -1.7 | -1.66 | -1.67 | -1.75 |
| Efficiency (%) | 57.44 | 58.52 | 59.37 | 60.26 | 61.25 | 61.97 | 62.7 | 63.37 | 63.52 | 63.63 | 64.21 | 64.19 | 64.61 | 63.33 | 63.52 | 62.54 | 62.21 | 61.43 | 62.09 | 62.39 | 63.57 | 64.99 | 65.01 | 66.79 | 65.46 | 65.43 | 66.67 | 67.57 | 68.17 | 68.08 | 66.91 |
| Directivity (dB) | 2.35 | 2.36 | 2.36 | 2.37 | 2.33 | 2.33 | 2.33 | 2.37 | 2.34 | 2.36 | 2.37 | 2.41 | 2.45 | 2.51 | 2.55 | 2.59 | 2.64 | 2.68 | 2.75 | 2.79 | 2.84 | 2.88 | 2.92 | 2.98 | 3.02 | 3.06 | 3.1 | 3.15 | 3.12 | 3.16 | 3.17 |