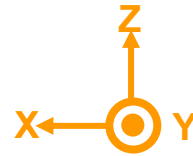


2450AT18B100

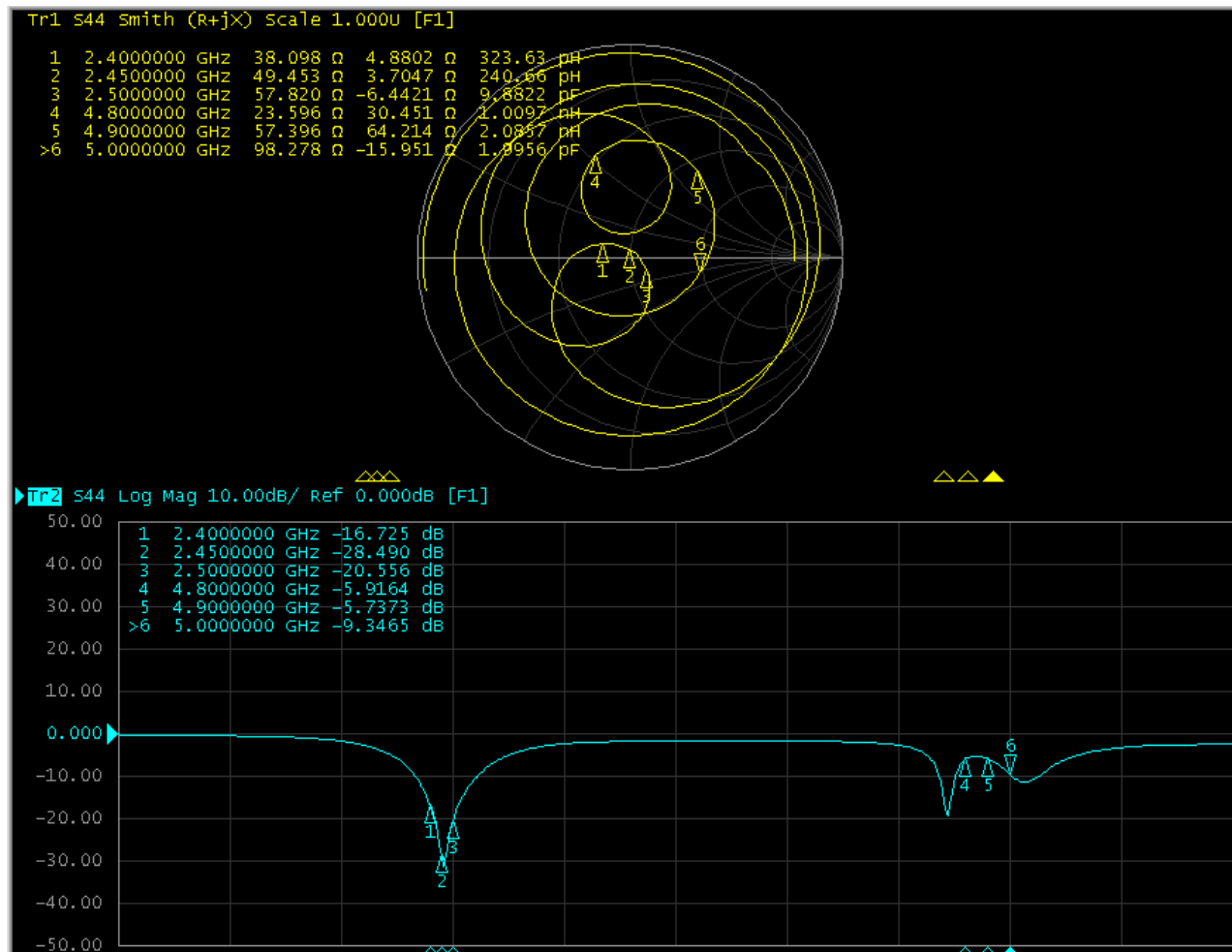


3.3mm*1.65mm

Manufacturer: Shiftall Inc.

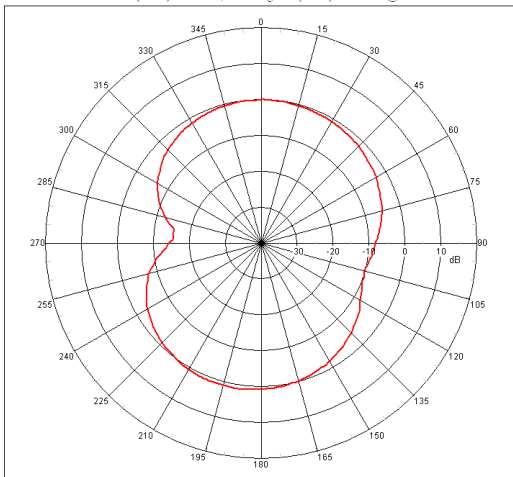
Address: 4F Tokyo Daiwa Bldg., 2-6-10 Nihonbashibakurocho,
Chuo, Tokyo, Japan

Return Loss measurement of 2450AT18B100



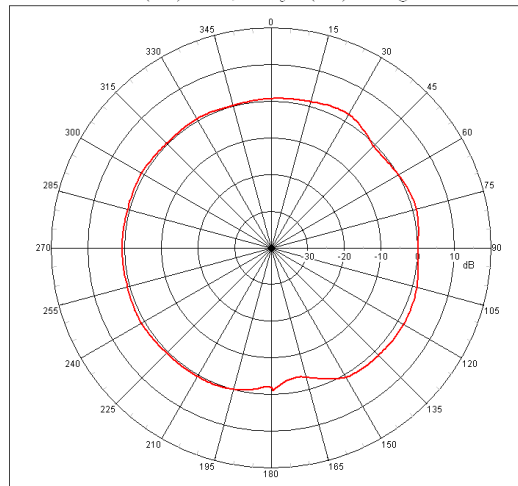
2450AT18B100_2D Gain Pattern @ 2.402GHz

Far-field Power Distribution(Total) on X-Y Plane
Plot Peak Gain(Total)= 1.0 dBi; Plot AvgGain(Total)= -3.1dBi @2.40200 GHz



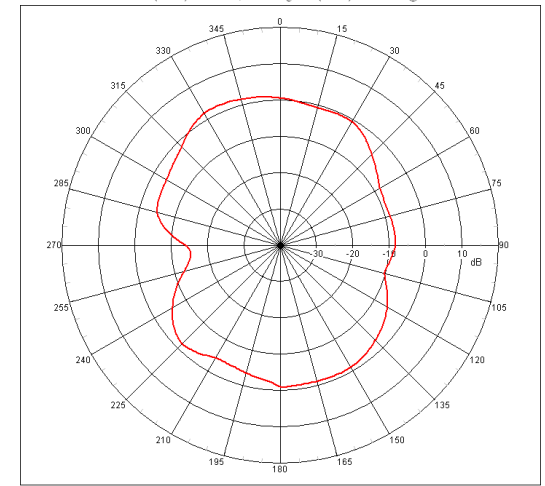
| | Peak gain | Avg. gain |
|----------|-----------|-----------|
| XY-plane | 1.0 | -3.1 |

Far-field Power Distribution(Total) on X-Z Plane
Plot Peak Gain(Total)= 2.1 dBi; Plot AvgGain(Total)= 0.4dBi @2.40200 GHz



| | Peak gain | Avg. gain |
|----------|-----------|-----------|
| XZ-plane | 2.1 | 0.4 |

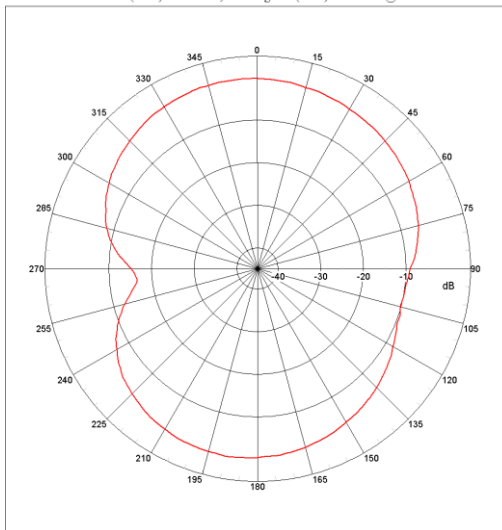
Far-field Power Distribution(Total) on Y-Z Plane
Plot Peak Gain(Total)= 2.1 dBi; Plot AvgGain(Total)= -3.5dBi @2.40200 GHz



| | Peak gain | Avg. gain |
|----------|-----------|-----------|
| YZ-plane | 2.1 | -3.5 |

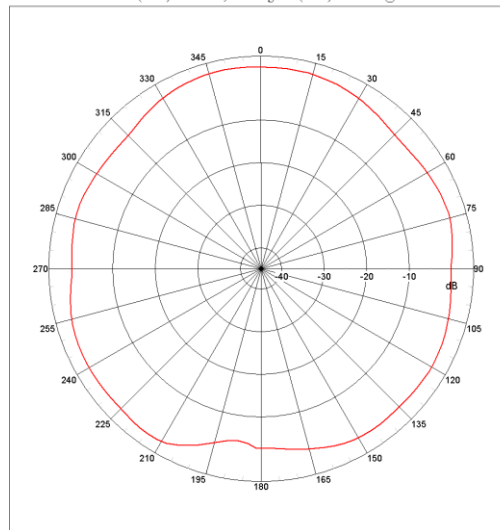
2450AT18B100_2D Gain Pattern @ 2.45GHz

Far-field Power Distribution(H+V) on X-Y Plane
Plot Peak Gain(H+V)=-0.24 dBi; Plot AvgGain(H+V)=-3.84dBi @2.45000 GHz



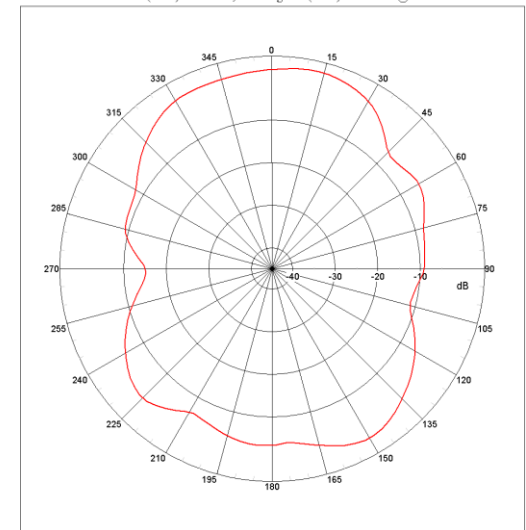
| | Peak gain | Avg. gain |
|----------|-----------|-----------|
| XY-plane | -0.2 | -3.8 |

Far-field Power Distribution(H+V) on X-Z Plane
Plot Peak Gain(H+V)= 2.47 dBi; Plot AvgGain(H+V)= 0.53dBi @2.45000 GHz



| | Peak gain | Avg. gain |
|----------|-----------|-----------|
| XZ-plane | 2.5 | 0.5 |

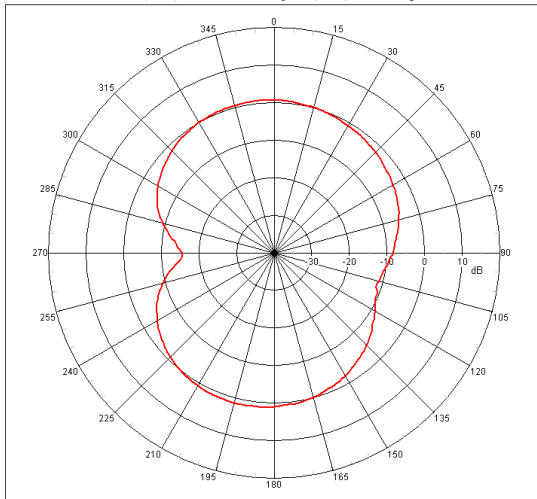
Far-field Power Distribution(H+V) on Y-Z Plane
Plot Peak Gain(H+V)= 2.52 dBi; Plot AvgGain(H+V)=-3.51dBi @2.45000 GHz



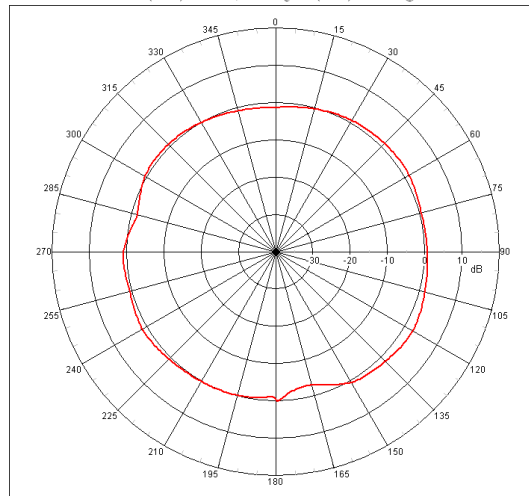
| | Peak gain | Avg. gain |
|----------|-----------|-----------|
| YZ-plane | 2.5 | -3.5 |

2450AT18B100_2D Gain Pattern @ 2.48GHz

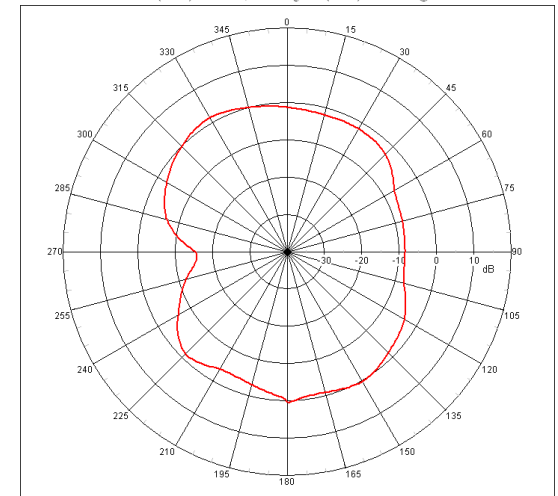
Far-field Power Distribution(Total) on X-Y Plane
Plot Peak Gain(Total)= 1.2 dBi; Plot AvgGain(Total)= -2.8dBi @2.48000 GHz



Far-field Power Distribution(Total) on X-Z Plane
Plot Peak Gain(Total)= 2.2 dBi; Plot AvgGain(Total)= 0.3dBi @2.48000 GHz



Far-field Power Distribution(Total) on Y-Z Plane
Plot Peak Gain(Total)= 1.5 dBi; Plot AvgGain(Total)= -3.2dBi @2.48000 GHz



| | Peak gain | Avg. gain |
|----------|-----------|-----------|
| XY-plane | 1.2 | -2.8 |

| | Peak gain | Avg. gain |
|----------|-----------|-----------|
| XZ-plane | 2.2 | 0.3 |

| | Peak gain | Avg. gain |
|----------|-----------|-----------|
| YZ-plane | 1.5 | -3.2 |