

Manufacturer	Raytac Corporation
Manufacturer Address	8F., No. 788-1, Zhongzheng Rd., Zhonghe Dist., New Taipei City, 235, Taiwan.
Antenna Type	Chip Antenna
Antenna Model	MDBT50Q
Antenna Part Number	MDBT50Q
Antenna Frequency Range	2400-2500Mhz
Antenna Peak Gain	-0.65 dBi
Antenna Dimensions (LxHxW)	L 8.15 × W 1.15 × H 1.35mm

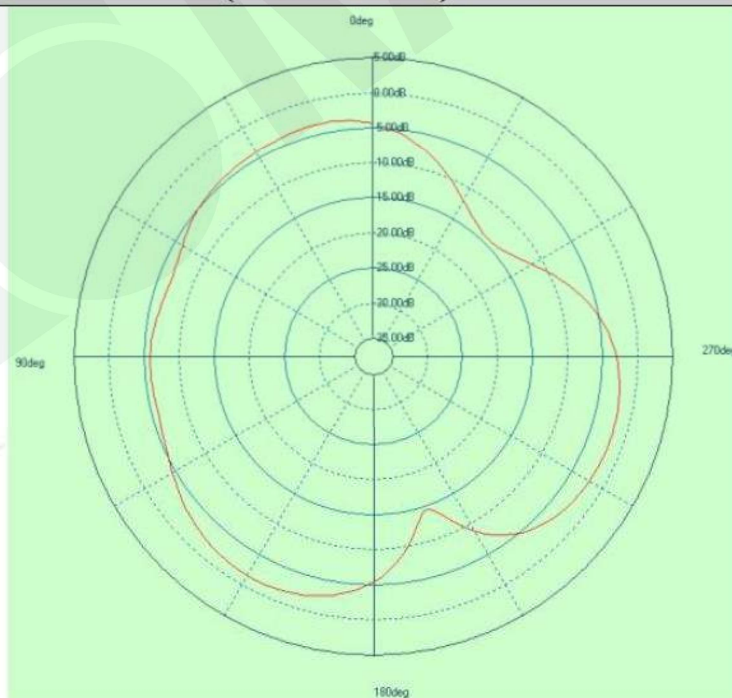
7. Antenna

7.1. MDBT50Q

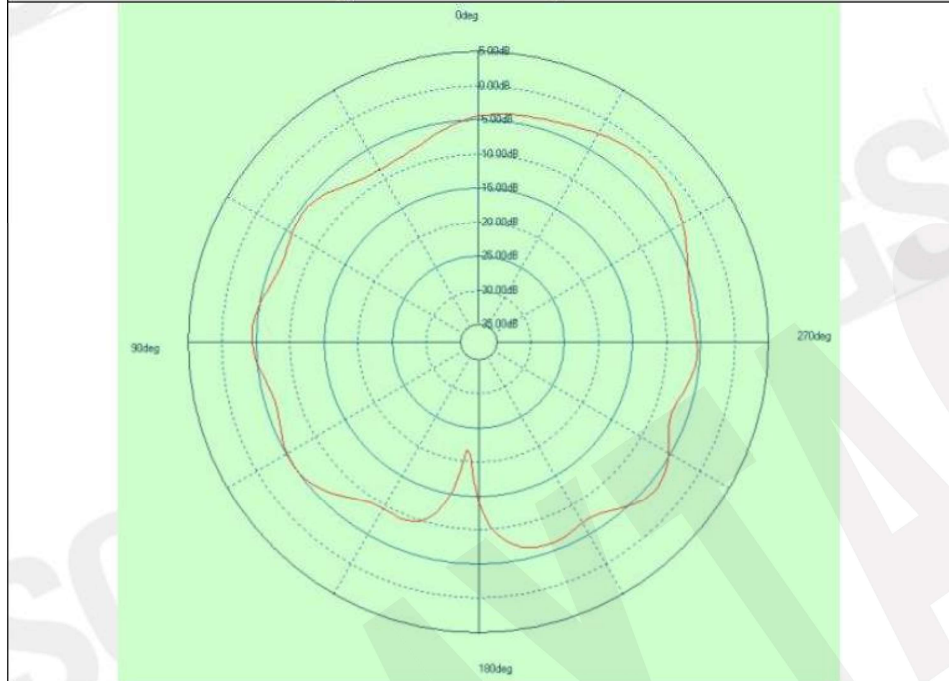
Antenna Gain and Efficiency

MDBT50Q (CHIP antenna)			
Freq(MHz)	Peak. dBi	Efficiency	Average . dBi
2400.00	-1.47	25.18%	-5.99
2410.00	-1.27	26.07%	-5.84
2420.00	-1.32	27.15%	-5.66
2430.00	-1.12	28.51%	-5.45
2440.00	-0.80	29.41%	-5.32
2450.00	-0.65	29.59%	-5.29
2460.00	-0.82	28.98%	-5.38
2470.00	-0.94	29.31%	-5.33
2480.00	-0.88	29.12%	-5.36
2490.00	-0.98	27.60%	-5.59
2500.00	-1.49	24.96%	-6.03

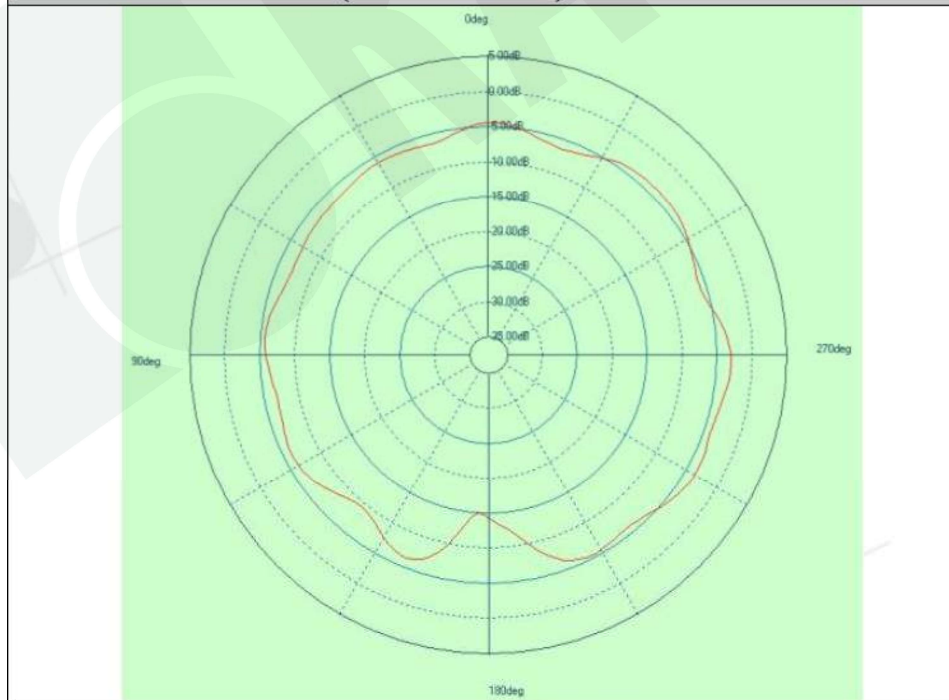
Free Space EIRP (2450 MHz) – XY cut



**Free Space
EIRP (2450 MHz) – XZ cut**



**Free Space
EIRP (2450 MHz) – YZ cut**



7.2. MDBT50Q-P

Antenna Gain and Efficiency

MDBT50Q (PCB antenna)			
Freq(MHz)	Peak. dBi	Efficiency	Average . dBi
2400.00	-0.72	29.40%	-5.32
2410.00	-0.62	31.02%	-5.08
2420.00	-0.44	32.89%	-4.83
2430.00	-0.44	35.00%	-4.56
2440.00	0.08	36.98%	-4.32
2450.00	0.05	37.76%	-4.23
2460.00	0.24	37.40%	-4.27
2470.00	0.26	37.43%	-4.27
2480.00	0.41	36.96%	-4.32
2490.00	0.37	35.03%	-4.56
2500.00	-0.15	31.71%	-4.99

Free Space EIRP (2450 MHz) – XY cut

