

Bluetooth antenna of PCB on-board specification

1, Index

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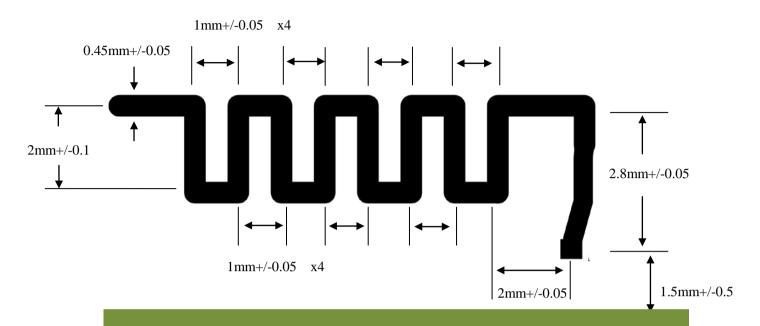
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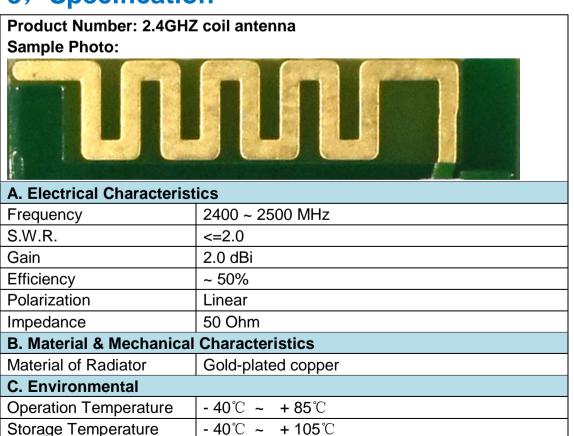


2, Spec Drawing



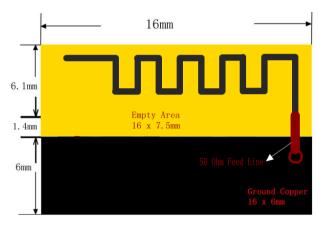
Ground copper

3, Specification



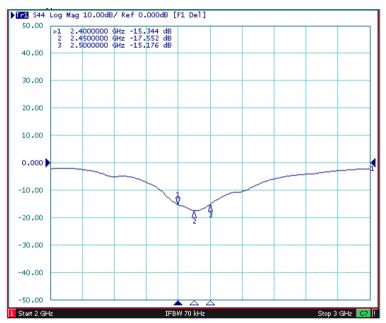


4, Antenna On Test Board



FR4 Thickness 0.8mm

5, Return Loss

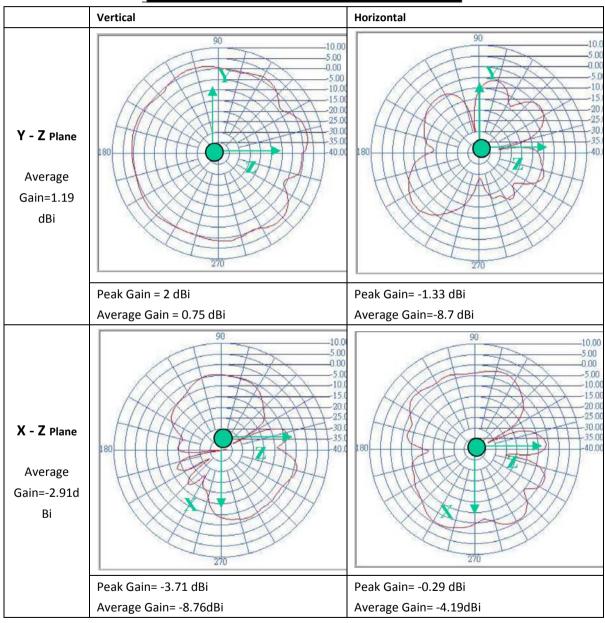


6, Radiation Pattern

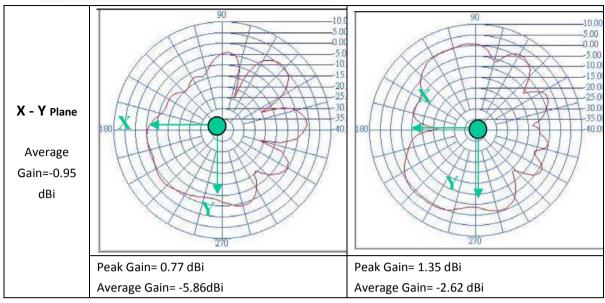
Radiation Pattern and Gain were dependent on measurement board design. The specification of coil antenna was measur ed based on the PCB size and installation position as shown in the below figure Test Board.











Test Result:

Frequency VNA	E Total. dB(dB)	Efficiency
2400MHz	0. 693991	41.07%
2410MHz	1. 14338	47. 24%
2420MHz	0. 223052	40. 48%
2430MHz	-0. 13659	33. 93%
2440MHz	0. 35326	37. 82%
2450MHz	1.039894	42. 77%
2460MHz	2. 00101	50. 67%
2470MHz	0. 649809	41. 93%
2480MHz	-0. 215933	35. 66%
2490MHz	-0. 476639	34. 62%
2500MHz	0. 710741	40. 22%