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# Antenna Specification

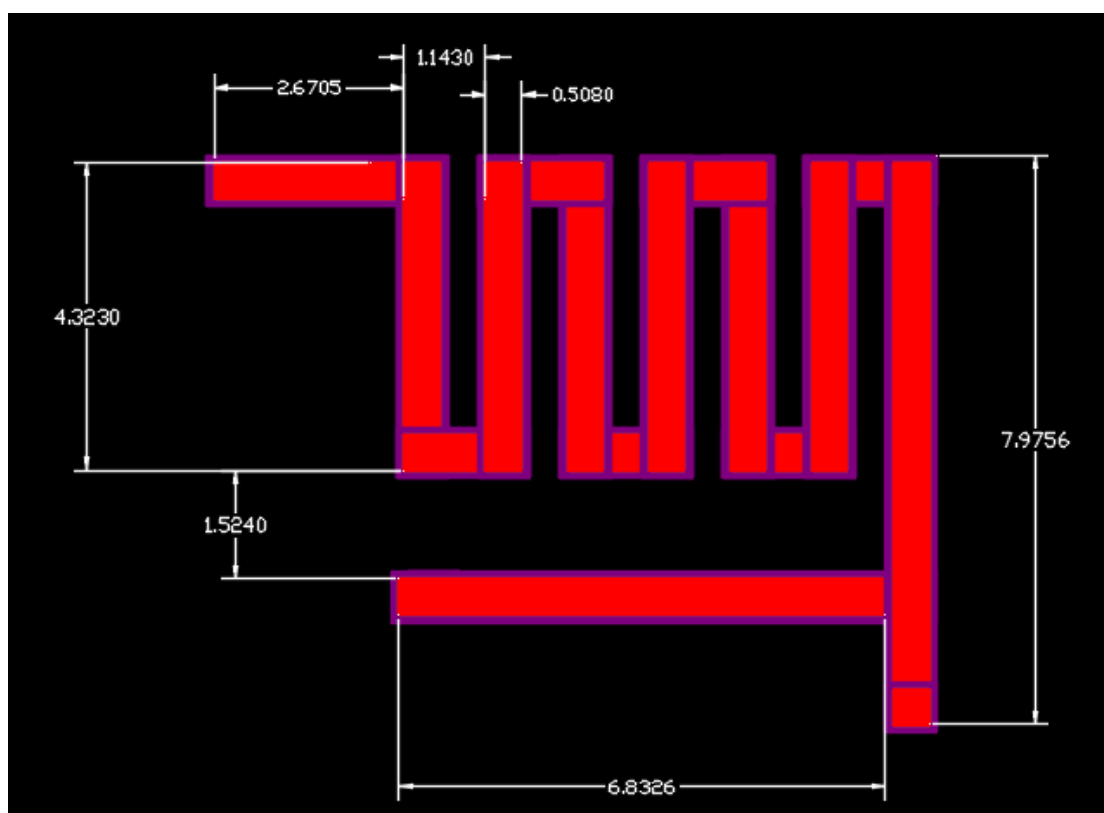
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**1. Antenna describe.**

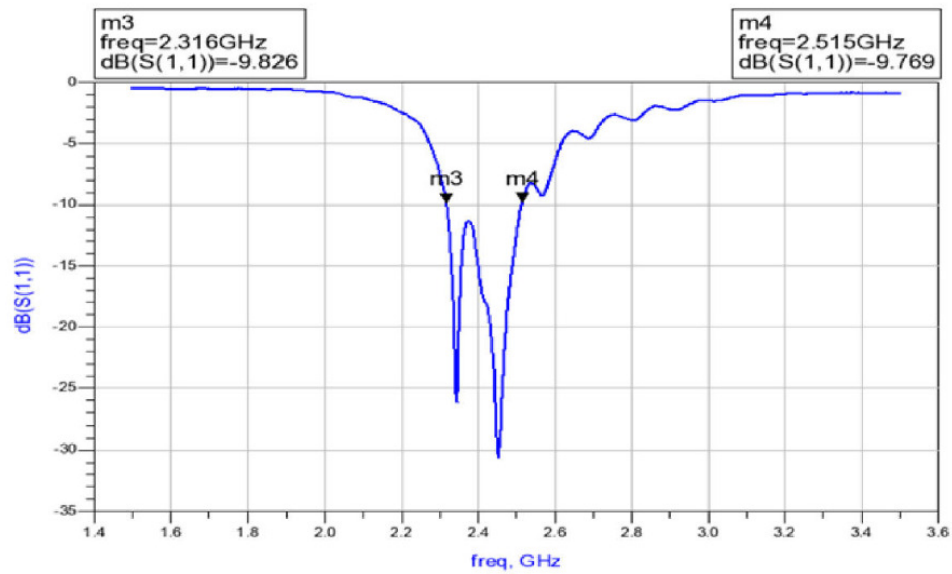
Antenna type	PCB Antenna
Antenna plate	Monopole
Make name/model name	2.4G_1_PIA
Antenna gain	0dBi
Frequency range	2400Mhz-2483.5Mhz
Antenna impedance	50 $\Omega$
V.S.W.R	$\leq 2.0$ Max
Return Loss	-9.7dB
Connector type	Direct

**2. External view drawing.**

Company: mm



### 3.Return loss.



### 4.2D Antenna Pattern.

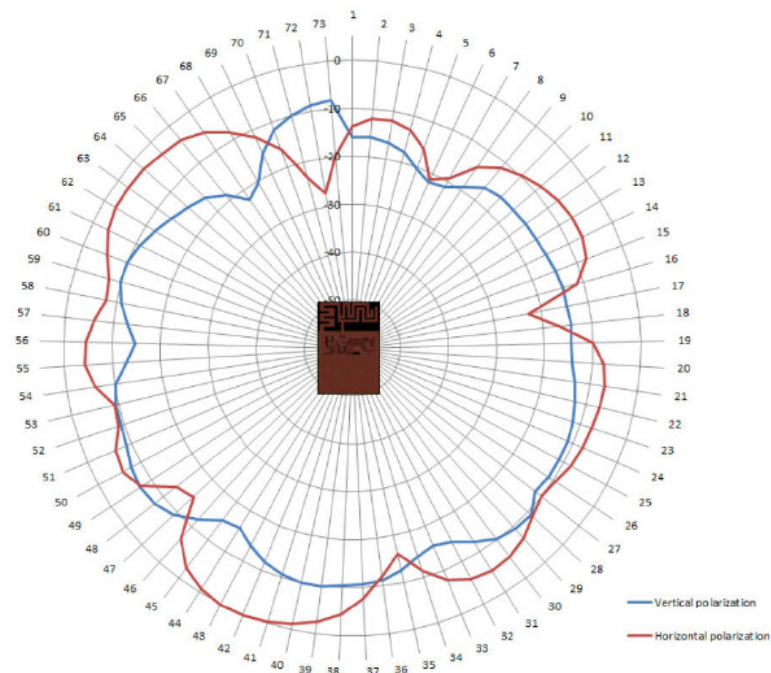
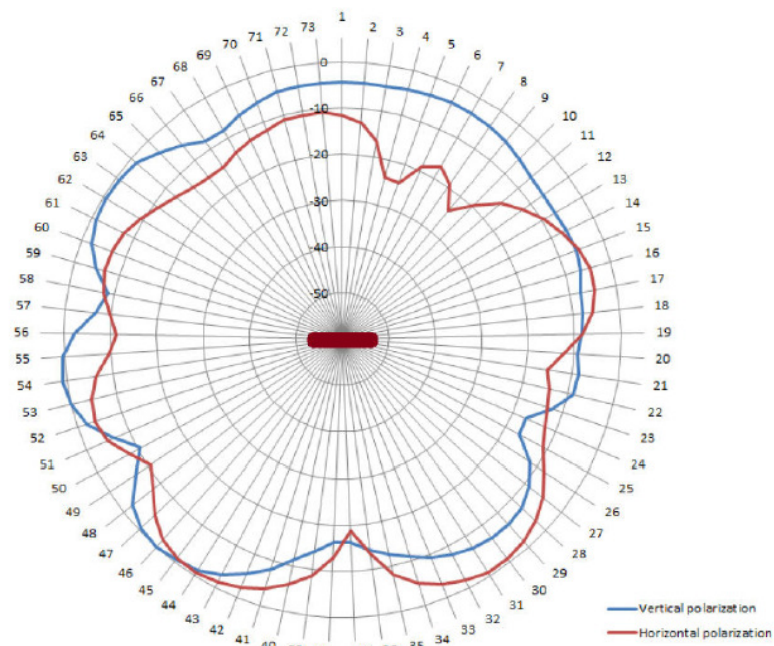


Figure 16: Radiation pattern, PCB horizontal, reduced size IFA, variant 2



**Figure 17: Radiation pattern, PCB vertical, reduced size IFA, variant 2**