

WIFI antenna PBM000033-V1R3 – Datasheet



I. Description

Titoma WIFI antenna operates in the lower band (2.4GHz) for 802.11 b/g/n.

It contains a double-side adhesive tape and a coaxial cable to use with U.FL/I-PEX/UMCC connectors.

II. Applications

This antenna can be used to communicate via WIFI, BLE, BT and any other 2.4GHz proprietary protocols devices.

III. Specifications summary

<i>Description</i>	<i>Value</i>
<i>Frequency /bands</i>	2.40 - 2.50 GHz
<i>VSWR</i>	1.7:1 max (free space)
<i>Peak Gain</i>	4.07dBi
<i>Radiation pattern</i>	Omnidirectional
<i>Impedance</i>	50 Ω nominal
<i>Operating Temperature</i>	- 40 °C to 85 °C
<i>Max power</i>	1W (+30dBm)
<i>Dimensions</i>	50mm x 10mm
<i>Cable length</i>	100mm

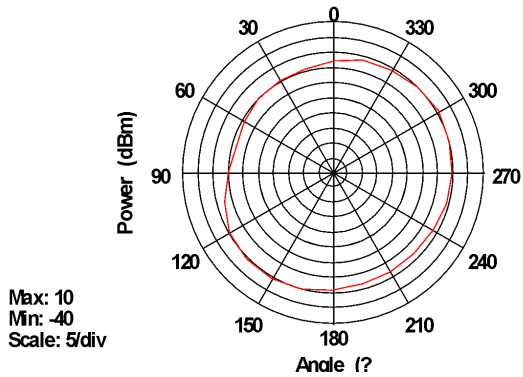
IV. Gain table

<i>Test / Position</i>	<i>3D Gain / FS</i>	
<i>Frequency (MHz)</i>	2412	2472
<i>Ant. Port Input Pwr. (dBm)</i>	0.00	0.00
<i>Tot. Rad. Pwr. (dBm)</i>	-1.78	-1.48
<i>Peak EIRP (dBm)</i>	3.73	4.07
<i>Directivity (dBi)</i>	5.51	5.55
<i>Efficiency (dB)</i>	-1.78	-1.48
<i>Efficiency (%)</i>	66.43	71.11
<i>Gain (dBi)</i>	3.73	4.07

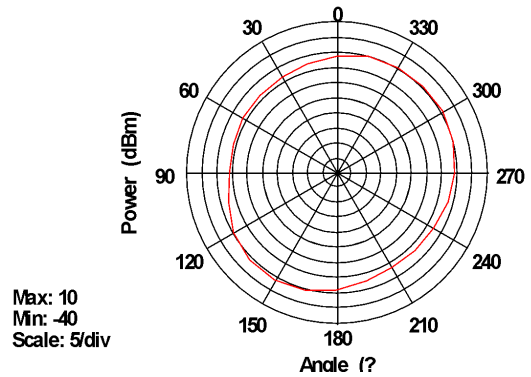
V. Radiation pattern (2D plots)

- XY plane

2412MHz

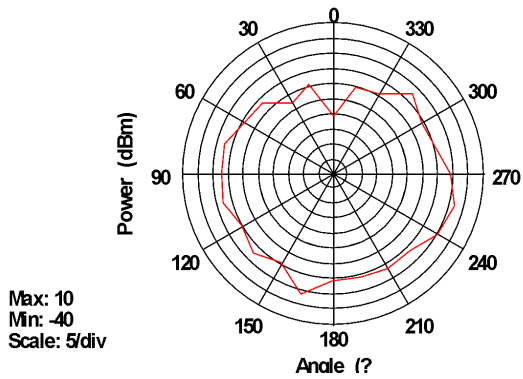


2472MHz

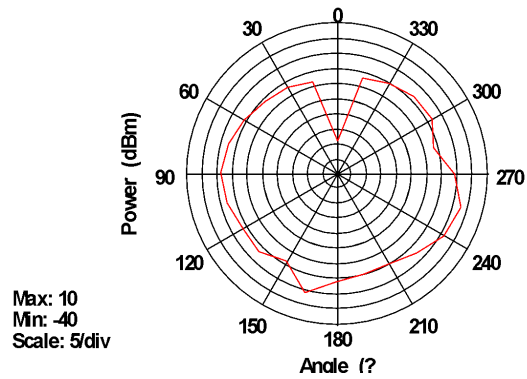


- XZ plane

2412MHz

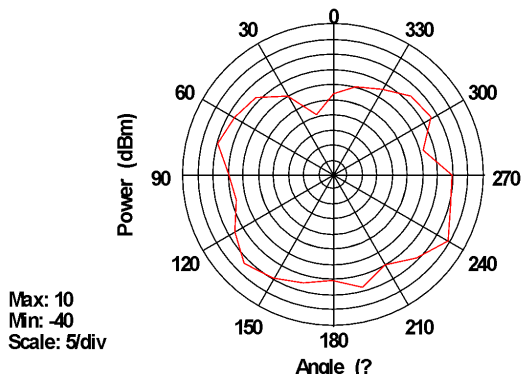


2472MHz

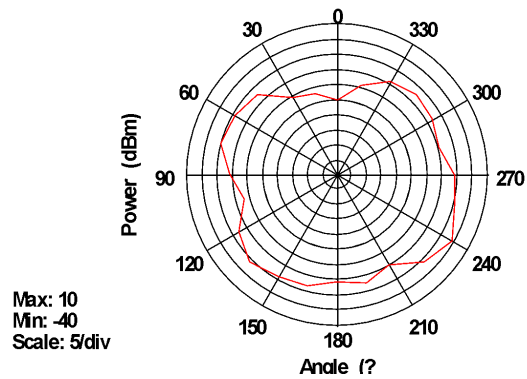


- YZ plane

2412MHz



2472MHz



VI. Return loss and VSWR

