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13. September 2023

PCB printed Dual Band Antenna – VCU - datasheet

Name and address of the antenna manufacturer

Robert Bosch GmbH
Robert-Bosch-Platz 1
70839 Gerlingen

Model number of the antenna

E000004395

Maximum gain of the antenna for the frequency band of operation

Wlan 2,4GHz	f	Max. Gain absolut
	MHz	dBi
	2412	5.2
	2448	4.6
	2484	4.3

Wlan 5GHz	f	Max. Gain absolut
	MHz	dBi
	5180	3.5
	5502.5	4.5
	5825	4.9

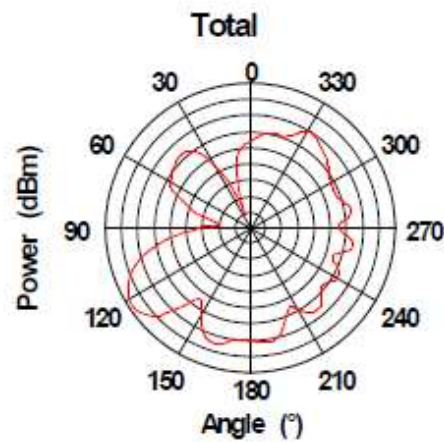


Antenna patterns

Pattern diagrams Wlan 2,4 GHz

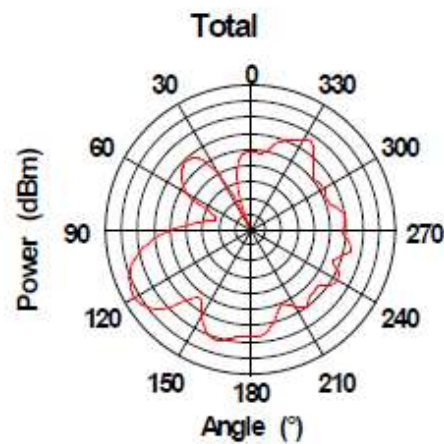
Plot 1 - 2412 MHz:

Max: 4
Min: -14
Scale: 2/div



Plot 2 - 2448 MHz:

Max: 6
Min: -12
Scale: 2/div



Plot 3 - 2484 MHz:

Max: 6
Min: -10
Scale: 2/div

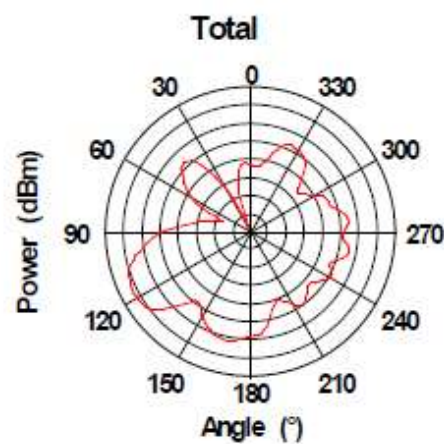


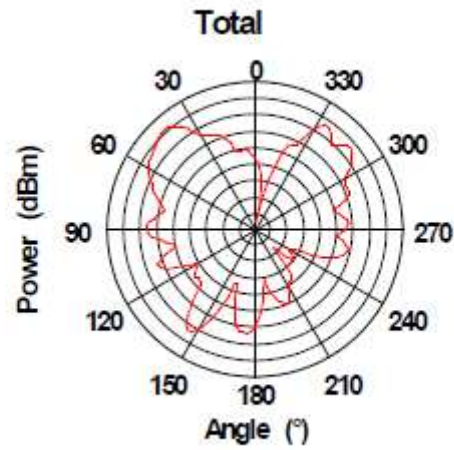
Figure 1 Antenna Pattern Azimuth



Plot 1 - 2412 MHz:

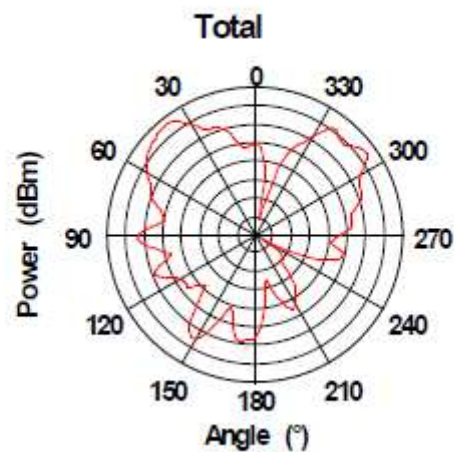
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Max: 6
Min: -12
Scale: 2/div



Plot 2 - 2448 MHz:

Max: 4
Min: -12
Scale: 2/div



Plot 3 - 2484 MHz:

Max: 2
Min: -14
Scale: 2/div

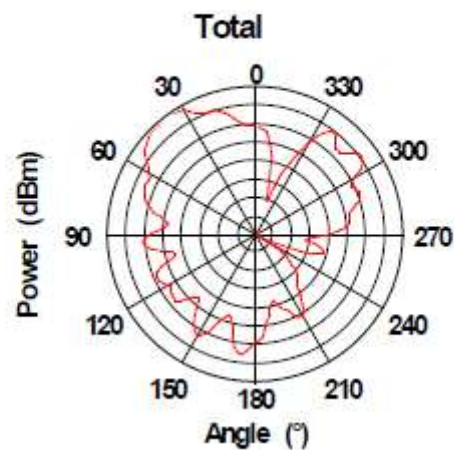


Figure 2 Antenna Pattern Elevation (front)

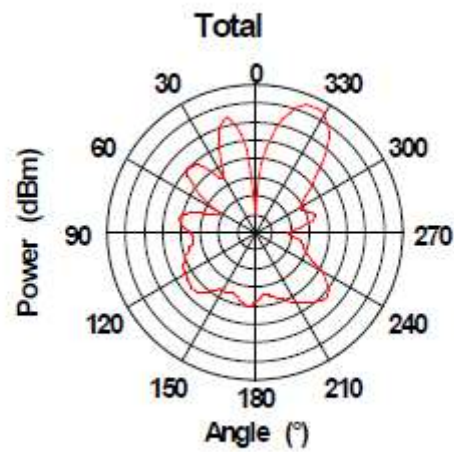


Plot 1 - 2412 MHz:

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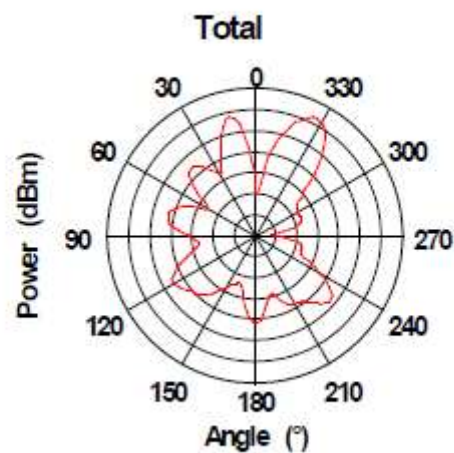
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Max: 6
Min: -10
Scale: 2/div



Plot 2 - 2448 MHz:

Max: 6
Min: -8
Scale: 2/div



Plot 3 - 2484 MHz:

Max: 4
Min: -10
Scale: 2/div

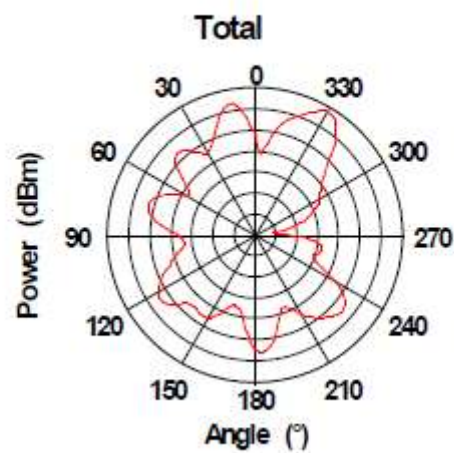


Figure 3 Antenna Pattern Elevation (aside)

Pattern diagrams Wlan 5 GHz

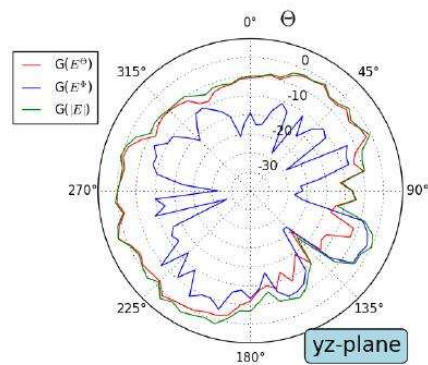
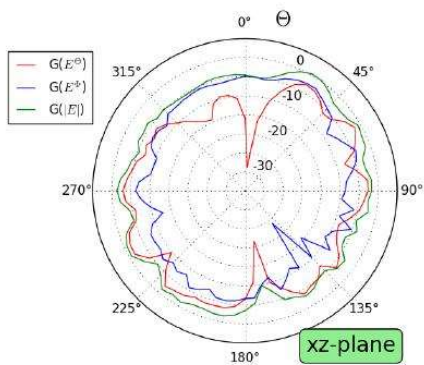
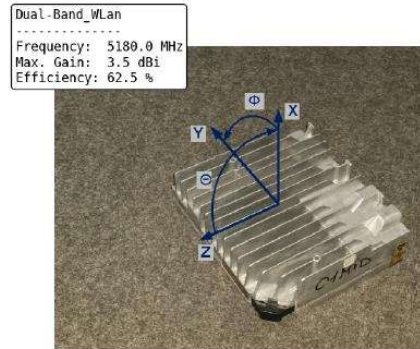
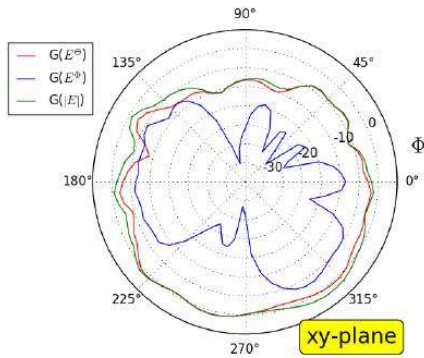


Figure 4 Wlan 5 GHz, 5180 MHz

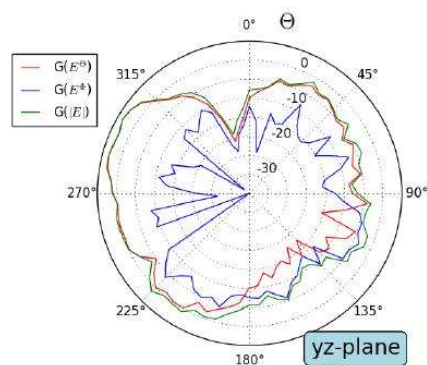
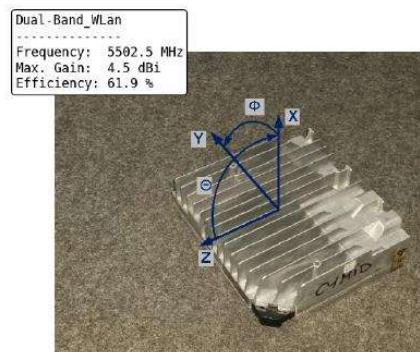
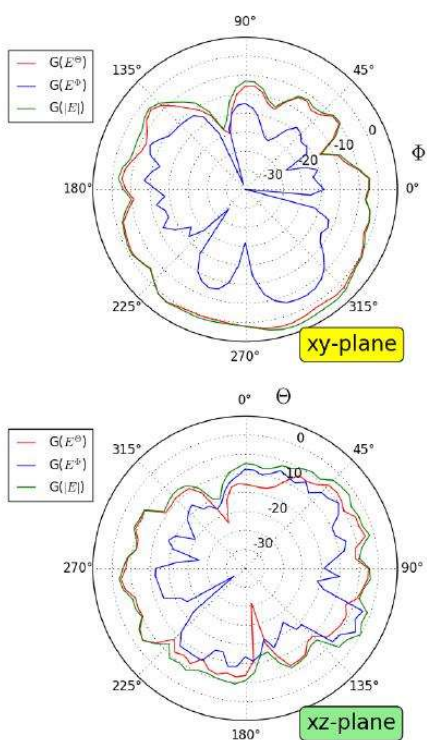


Figure 5 Wlan 5 GHz, 5502,5 MHz



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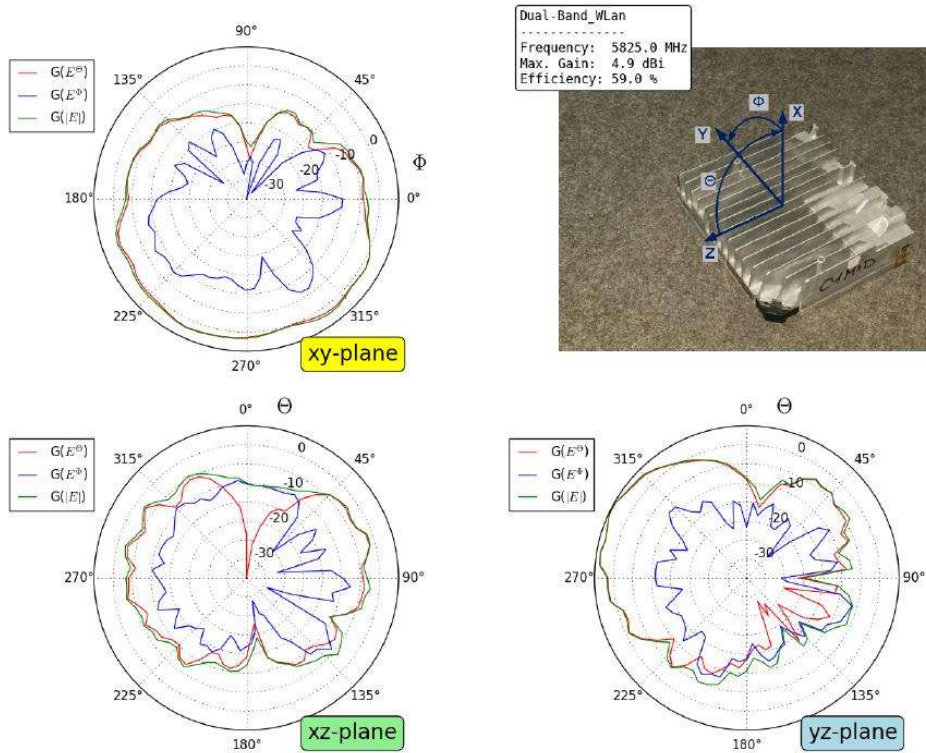


Figure 6Wlan 5 GHz, 5825 GHz