

Tri band Wi-Fi Flexible Printed Antenna (2.4/5/6 GHz)



AFG4507W2

Request Samples



Check Inventory



45.0 x 7.8 x 0.2 mm

RoHS/RoHS II Compliant

MSL Level = N/A

Features

- Compact
- High Efficiency
- High Gain
- Flexible antenna
- Easy installation using peel-and-stick.
- Fully customizable cable and connector options for RF connection

Applications

- IoT
- M2M
- Wearables
- Home Automation
- Medical Devices

Product Image



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Electrical Specification

Parameter		Specification			Unit
		Min	Typ	Max	
Operating Frequency		2400		2500	MHz
		5150		5850	
		5925		7125	
VSWR				3.0	
Peak gain	@2400 MHz		6.62		dBi
	@2450 MHz		6.01		
	@2500 MHz		6.61		
	@5160 MHz		7.68		
	@5500 MHz		8.12		
	@5840 MHz		6.91		
Impedance			50		Ω
Polarization		Linear			
Radiation Pattern		Omni-directional			

Mechanical Specification

Parameter	Specification
Antenna Dimensions	45.0 x 7.8 x 0.2 mm
Antenna Type	Flexible Printed Circuit
Mounting Type	Adhesive / Connector
RF Connector	IPEX-1 (F)
RF Cable Type	RF $\varnothing$ 1.13 mm
Cable Length	200 $\pm$ 10 mm

Note :

1. Do not install the antenna on a metal surface.
2. The antenna was tested on an ABS plastic surface of thickness 2mm. Frequency detuning may occur with change in dielectric material and thickness of the mounting surface.

Environmental Specification

Parameter	Specification
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
ROHS Complaint	Yes
PB Free	Yes
ESD Sensitive	No
MSL Level	N/A



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Ordering Information

Part Number	Description	Connector Option
AFG4507W2S-0050A	Tri band Wi-Fi Flexible Printed Antenna (2.4/5/6 GHz) with 50 mm cable	IPEX-4 (F)
AFG4507W2S-0200S	Tri band Wi-Fi Flexible Printed Antenna (2.4/5/6 GHz) with 200 mm cable	IPEX-1 (F)
AFG4507W2S-0200A	Tri band Wi-Fi Flexible Printed Antenna (2.4/5/6 GHz) with 200 mm cable	IPEX-4 (F)
AFG4507W2S-0150S	Tri band Wi-Fi Flexible Printed Antenna (2.4/5/6 GHz) with 150 mm cable	IPEX-1 (F)
AFG4507W2S-0100S	Tri band Wi-Fi Flexible Printed Antenna (2.4/5/6 GHz) with 100 mm cable	IPEX-1 (F)
AFG4507W2S-0090S	Tri band Wi-Fi Flexible Printed Antenna (2.4/5/6 GHz) with 90 mm cable	IPEX-1 (F)



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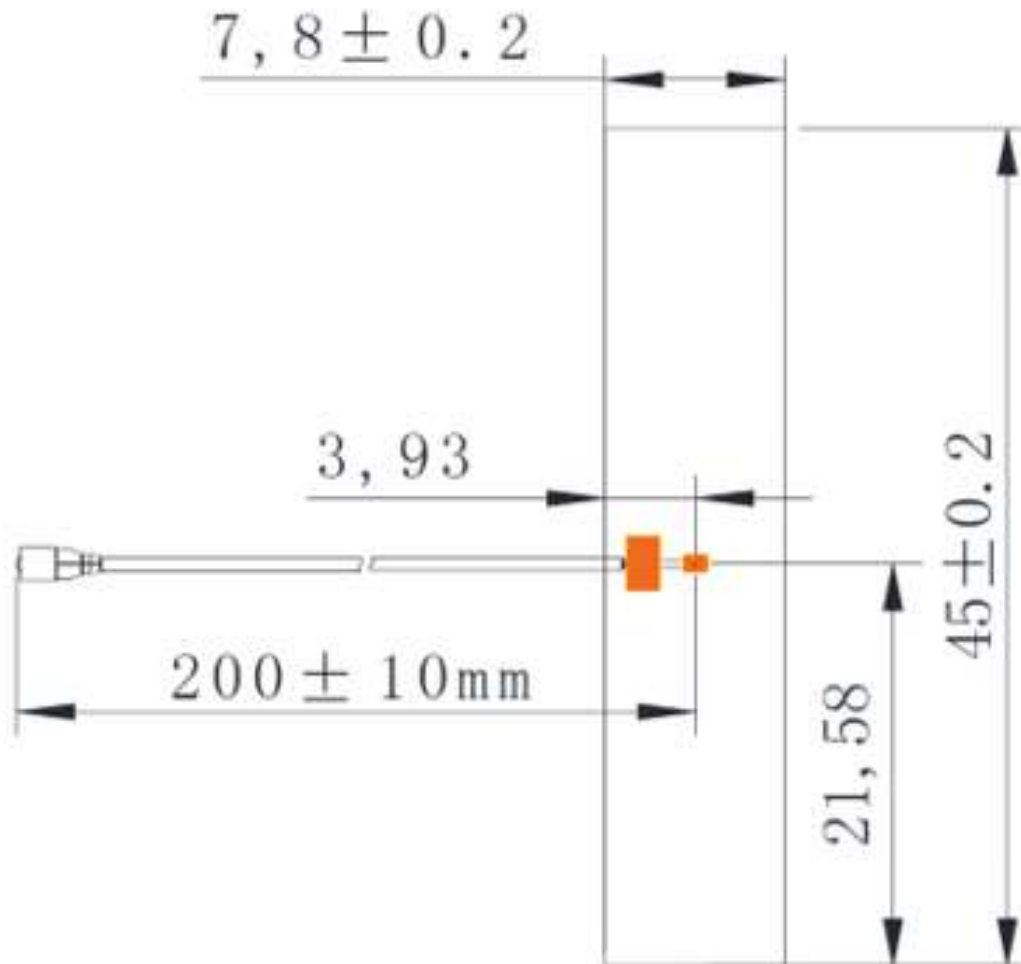


45.0 x 7.8 x 0.2 mm

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Product Dimension



Unit : mm

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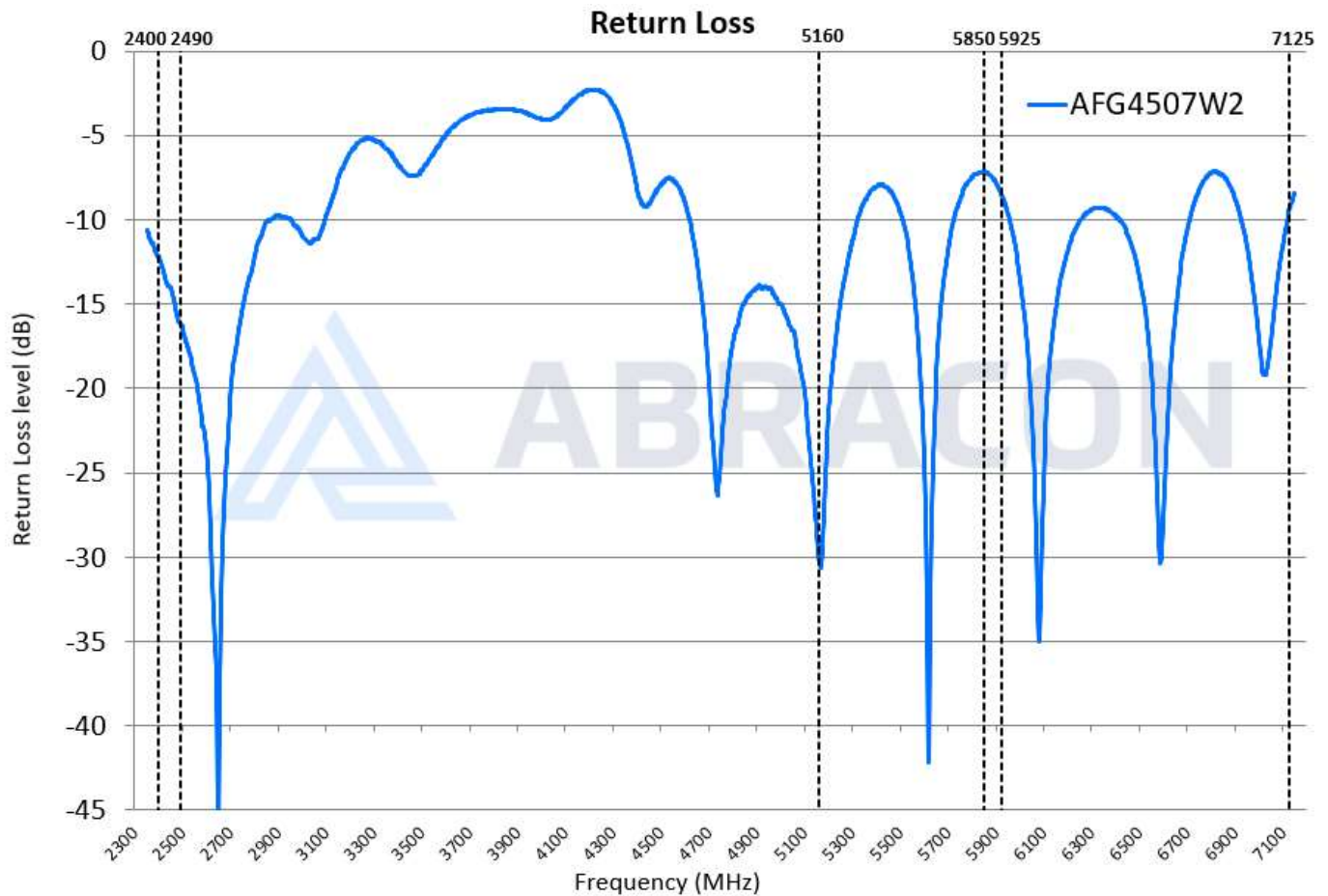


45.0 x 7.8 x 0.2 mm

RoHS/RoHS II Compliant

MSL Level = N/A

Return Loss



Tri band Wi-Fi Flexible Printed Antenna (2.4/5/6 GHz)



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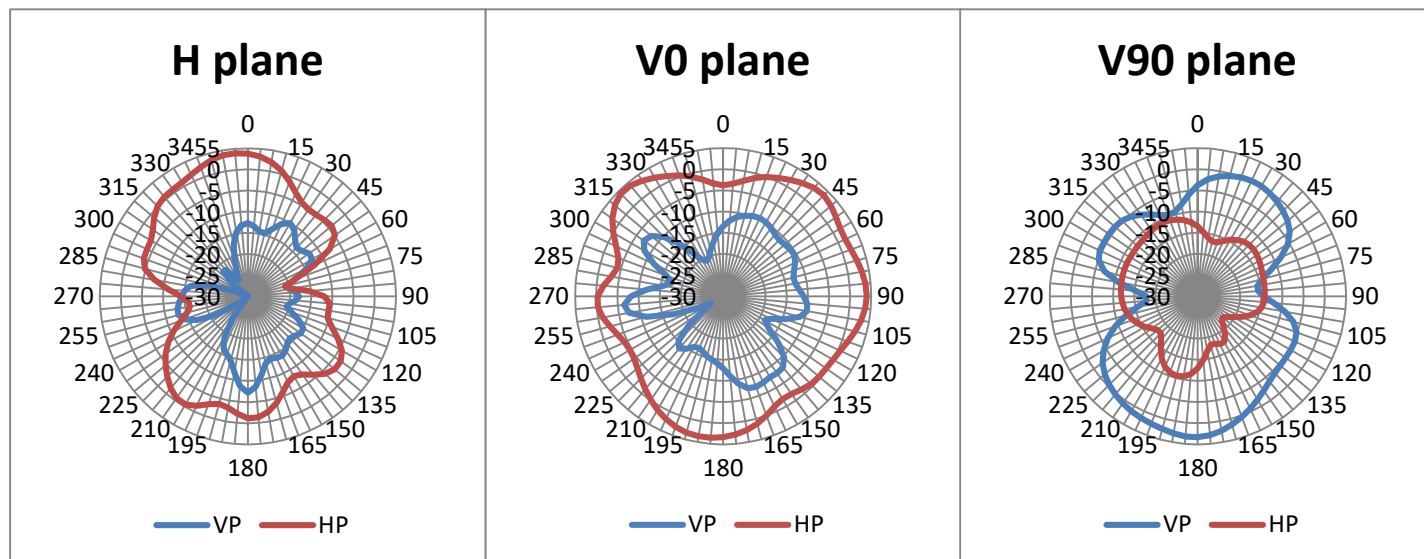
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RoHS/RoHS II Compliant

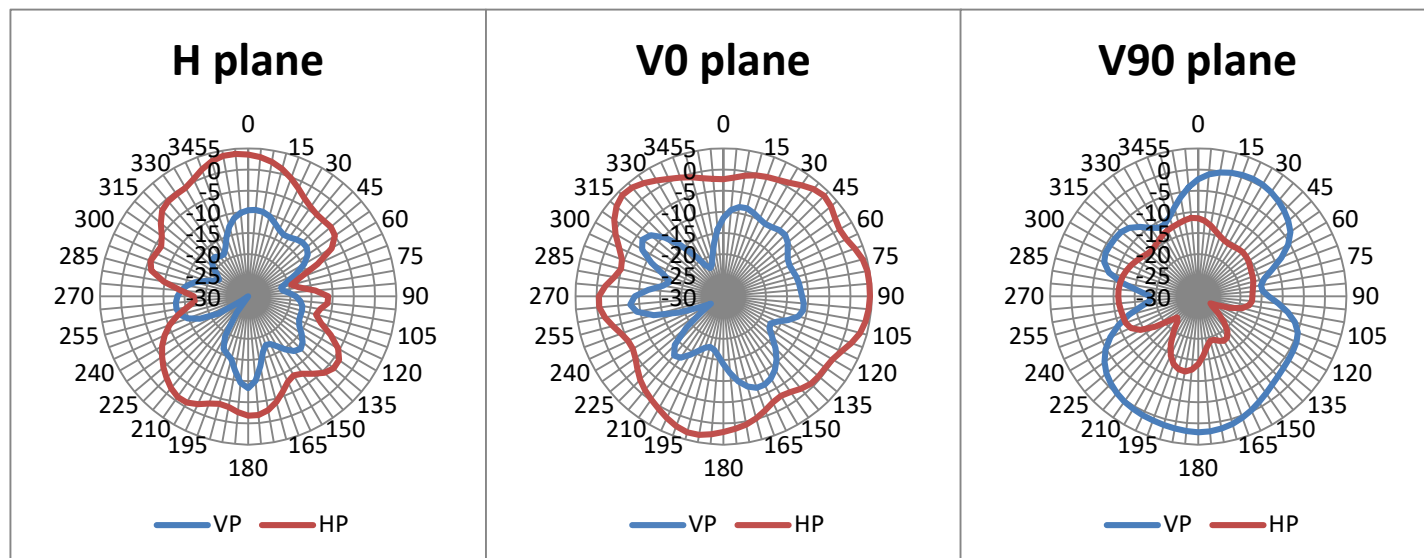
MSL Level = N/A

Radiation Characteristics

2.40 GHz Band



2.45 GHz Band



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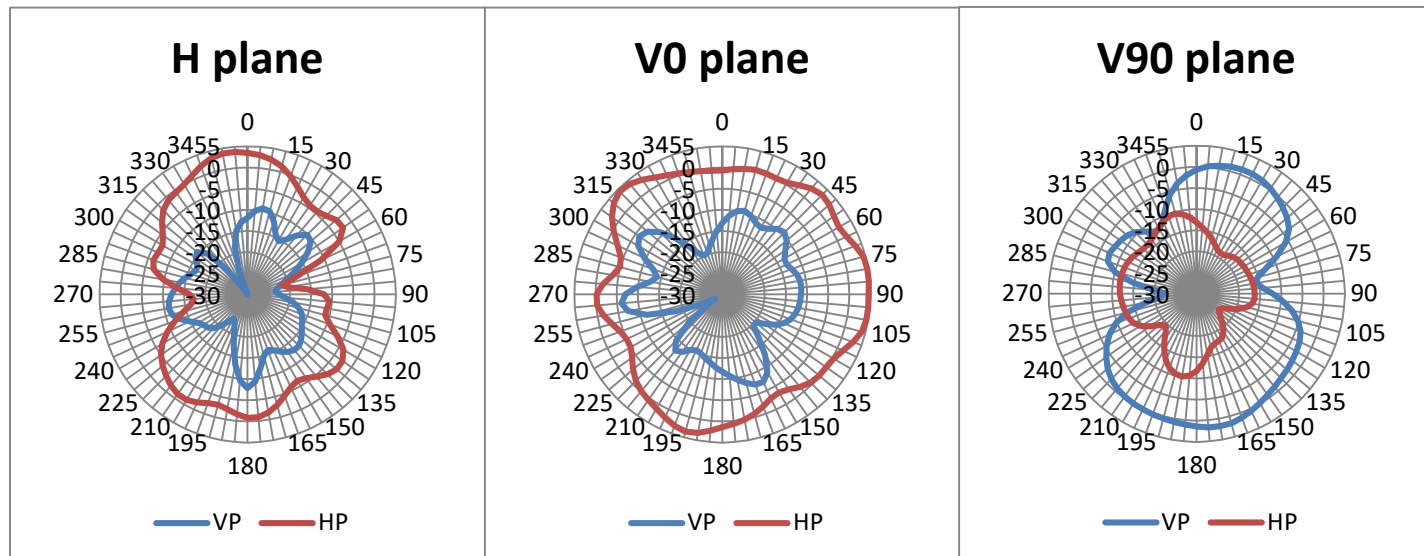


45.0 x 7.8 x 0.2 mm

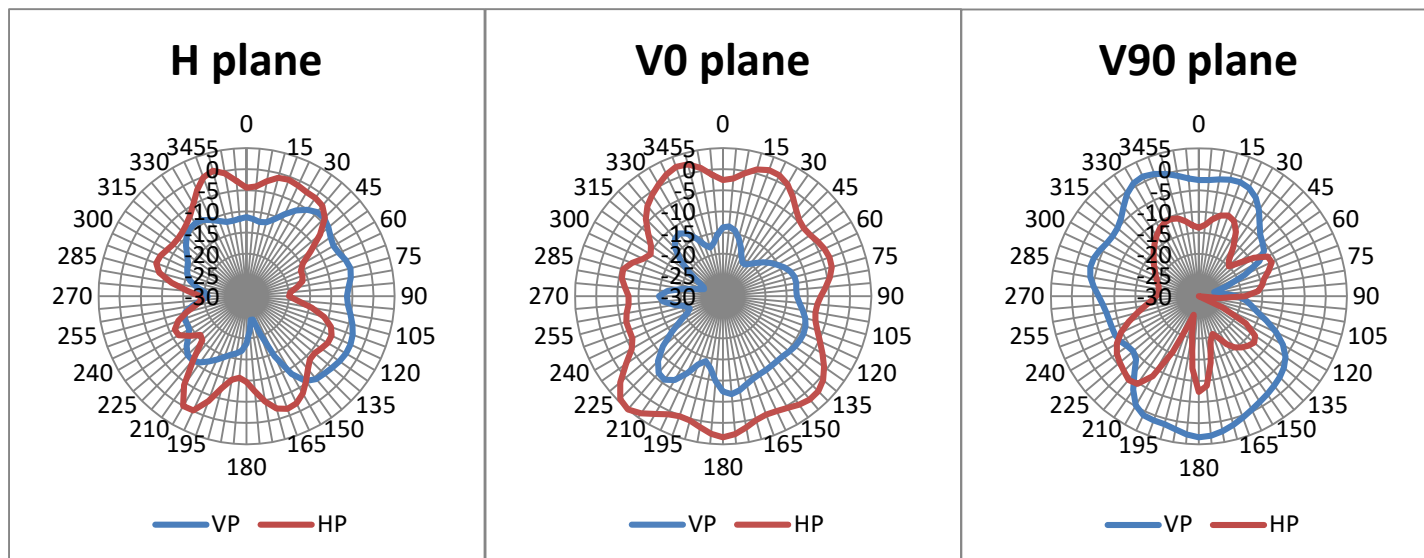
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MSL Level = N/A

2.49 GHz Band



5.15 GHz Band



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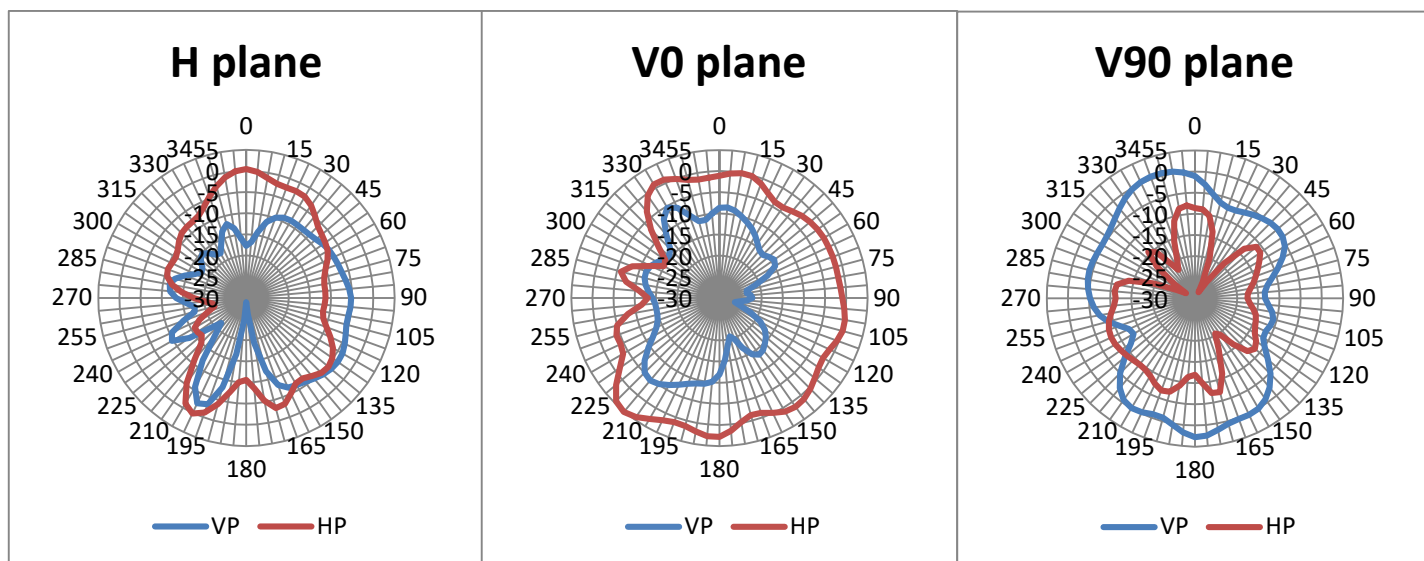


45.0 x 7.8 x 0.2 mm

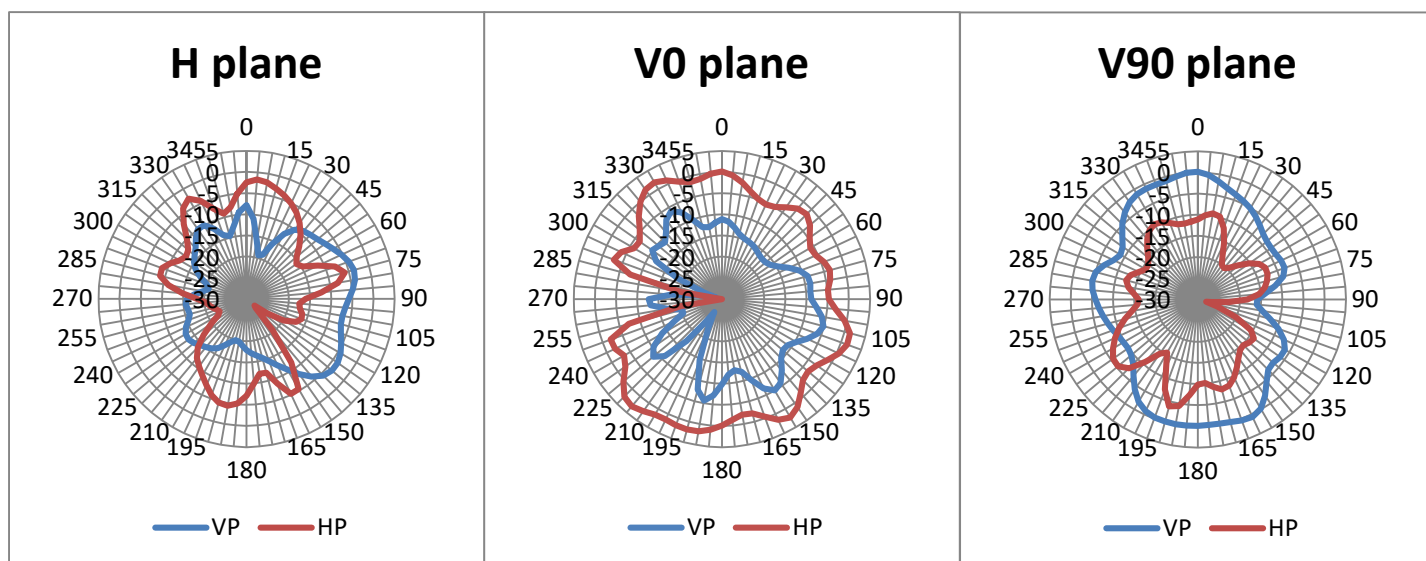
RoHS/RoHS II Compliant

MSL Level = N/A

5.5 GHz Band



5.85 GHz Band



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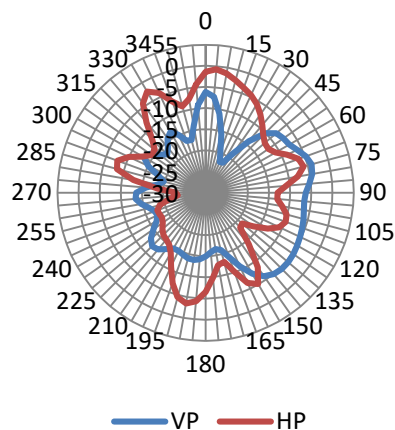
45.0 x 7.8 x 0.2 mm

RoHS/RoHS II Compliant

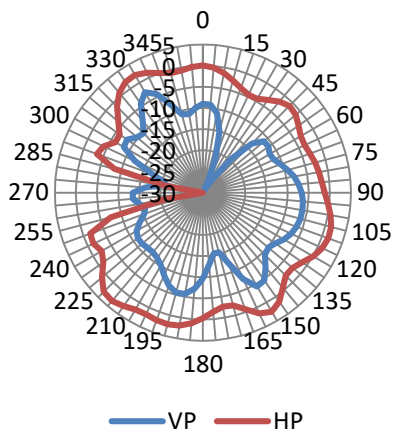
MSL Level = N/A

5.925 GHz Band

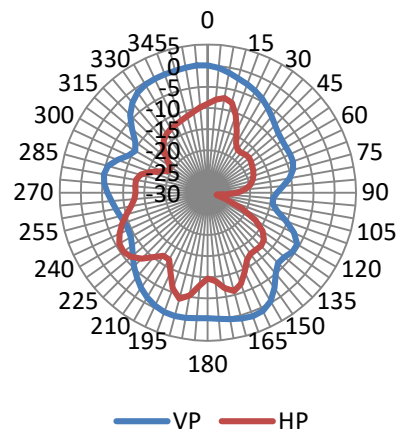
H plane



V0 plane

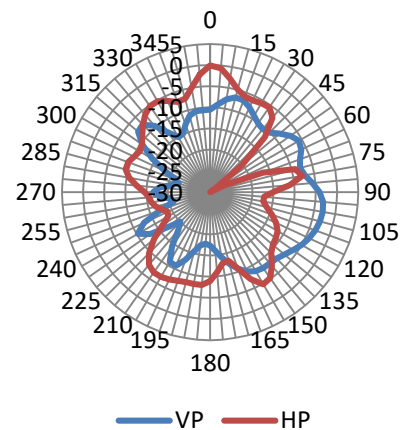


V90 plane

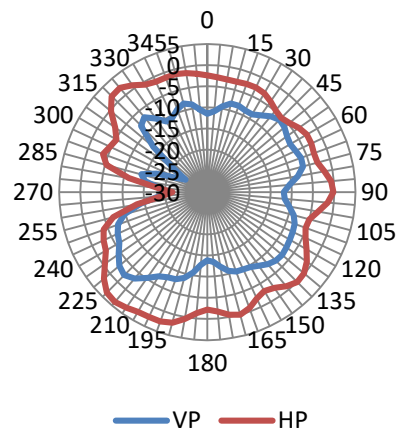


6.425 GHz Band

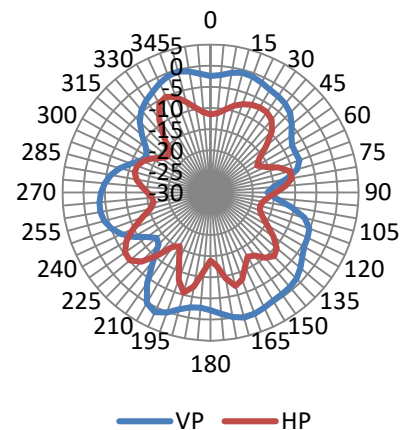
H plane



V0 plane



V90 plane



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Check Inventory

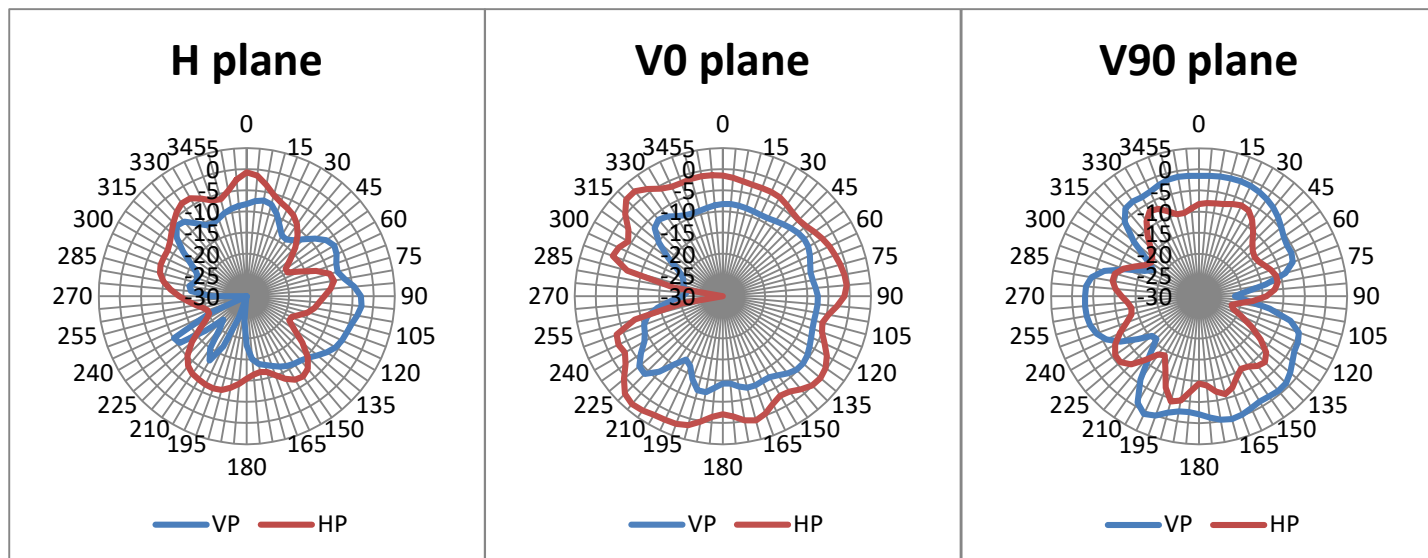


45.0 x 7.8 x 0.2 mm

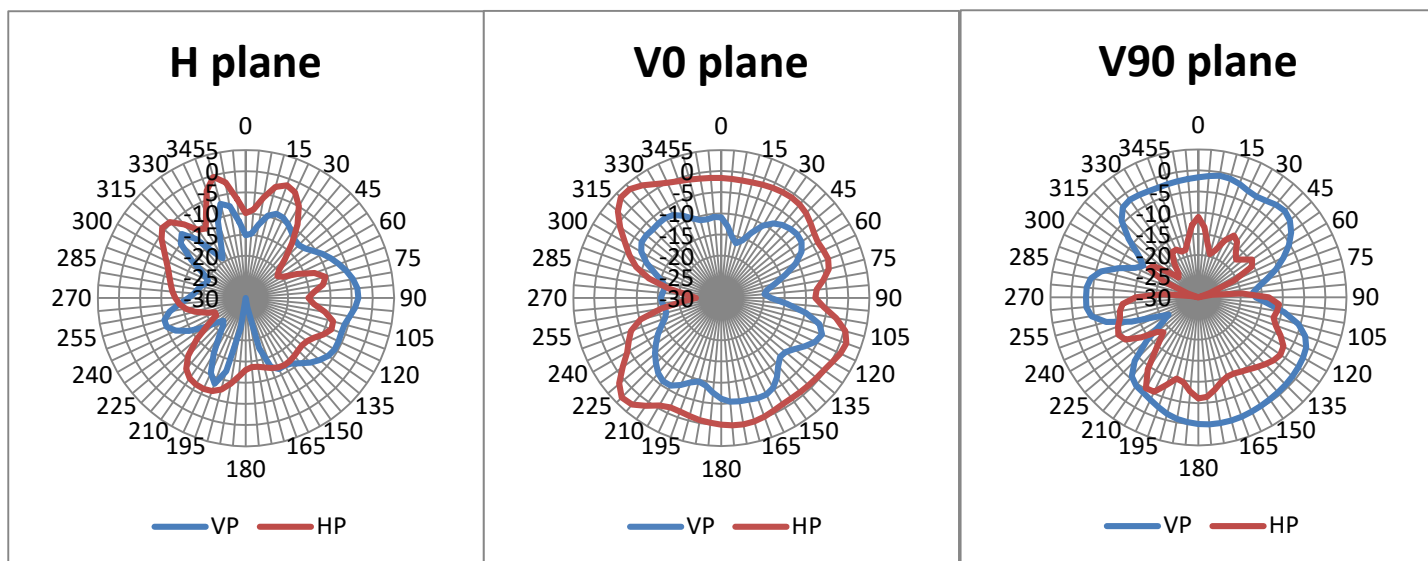
RoHS/RoHS II Compliant

MSL Level = N/A

6.525 GHz Band



6.875 GHz Band



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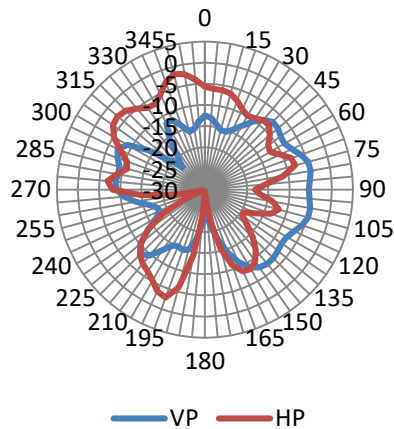
45.0 x 7.8 x 0.2 mm

RoHS/RoHS II Compliant

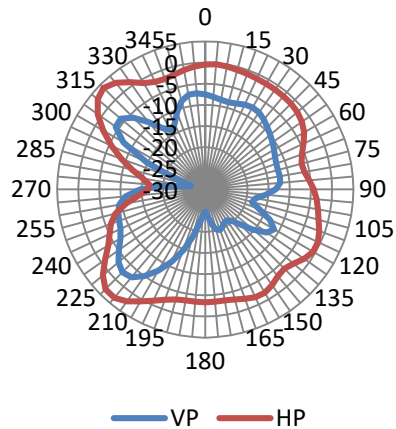
MSL Level = N/A

7.125 GHz Band

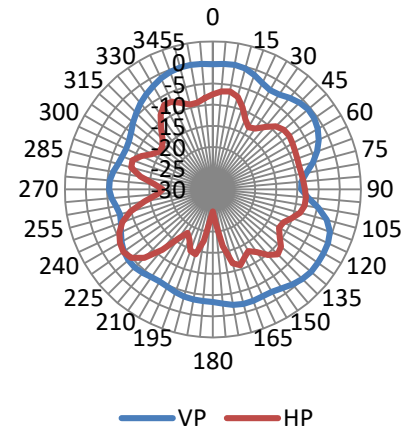
H plane



V0 plane



V90 plane



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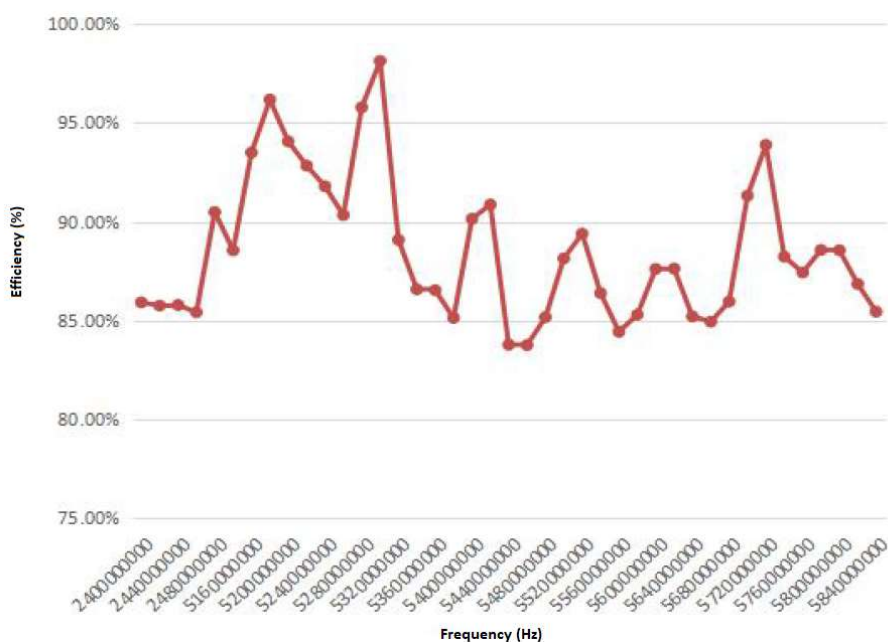


45.0 x 7.8 x 0.2 mm

RoHS/RoHS II Compliant

MSL Level = N/A

Efficiency



Packaging Information

Number of Antenna/ Carton: 1000 pcs

Dimension of the Carton: 630 x 460 x 105mm

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