

PRO-IS-212

Request Samples (>)



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50.0 x 8.0 x 0.8mm **RoHS/RoHS II Compliant** MSL Level = 1

Features

- Frequency coverage: 868 960, 1710 1990 MHz
- Thickness of 0.8 mm
- Linear Polarization
- Gain of up to 2.9 dBi
- Efficiency > 37%
- Easy integration using cable and connector
- Customizable cable and Connector options

Applications

- LoRA/SigFox/3G/2G/GSM/ISM applications
- IoT, M2M
- Industrial, Infrastructure IoT
- **Smart Metering**
- Consumer electronics
- Wireless modules
- Video and surveillance
- Broadband cellular connectivity

Product Image







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Electrical Specification

Parameter	Specification		Unit
Operating Frequency	868 ~ 960	1710 ~ 1990	MHz
Return Loss	< -3.5	< -3.6	dB
Polarization	Linear		
Peak Gain	2.9	1.9	dBi
Efficiency	>37	>51	%
Impedance	50	50	Ω

Mechanical Specification

Parameter	Specification	
Antenna Dimension	50 x 8 x 0.8 mm	
Cable Type	Coaxial	
Cable length	100 mm	
Connector Type	MHF-1 (F)	
Mounting Type	Adhesive	

Environmental Specification

Parameter	Specification	
Operating Temperature	-40°C to +85°C	
MSL Level	1	
RoHS/RoHS II Compliant	Yes	





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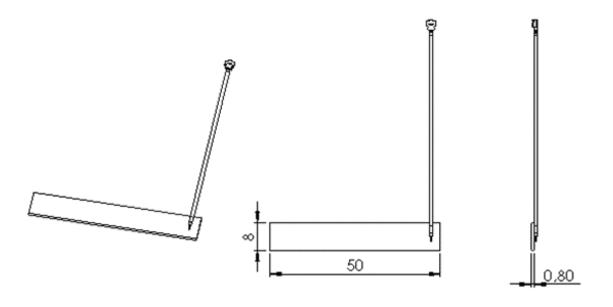


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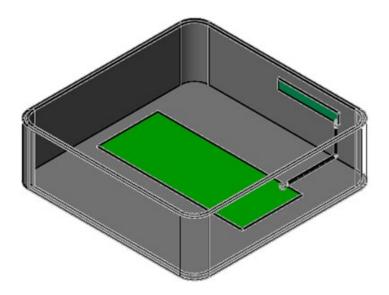
Product Dimensions



Unit: mm

Measurement Setup

The antenna measurements were done on a standard measurement fixture - the antenna mounted in an ABS plastic box, 150x150x45 mm, connected to a PCB, 120x50 mm, with the cable fully extended





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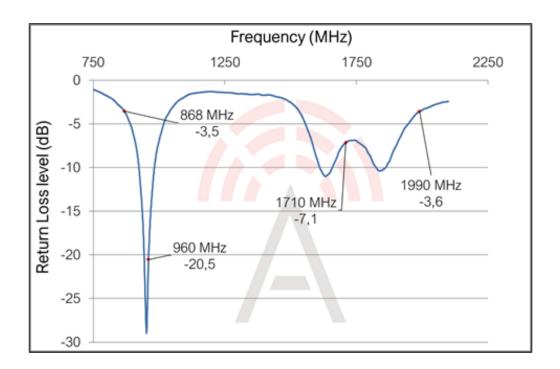


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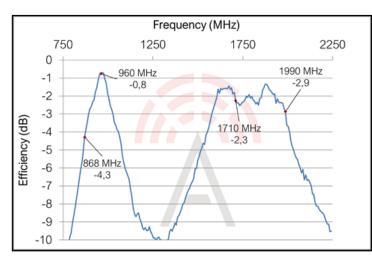
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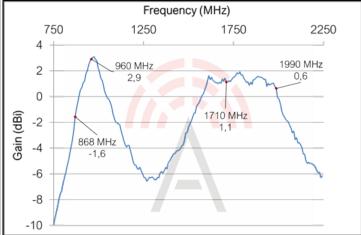
Return Loss



Total Radiation Efficiency

Maximum Radiation Gain









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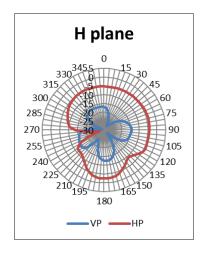


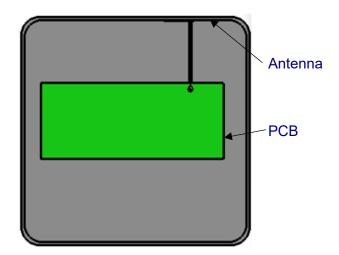
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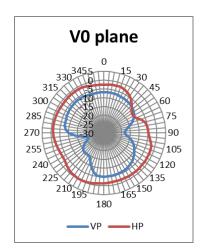


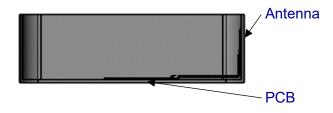
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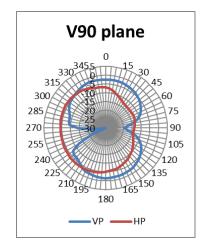
Radiation Characteristics - 2D Pattern (900 MHz)

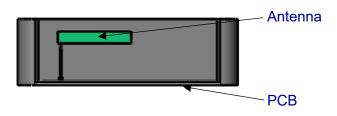
















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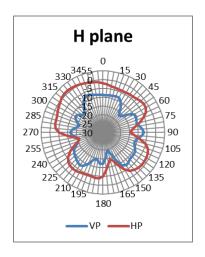


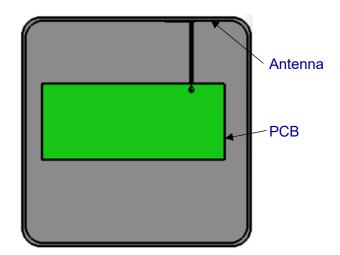
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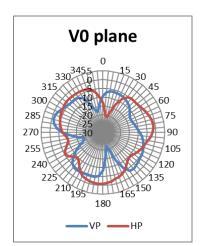


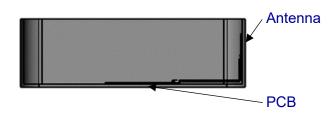
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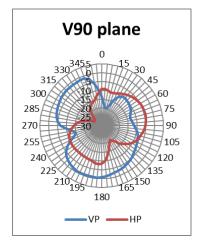
Radiation Characteristics - 2D Pattern (1710 MHz)

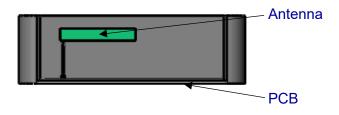
















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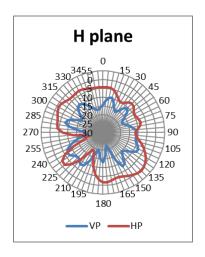


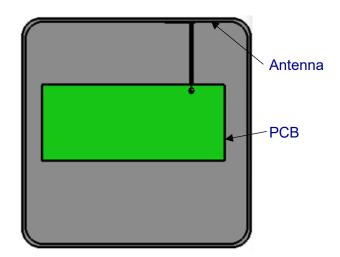
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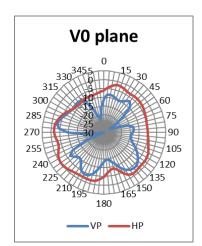


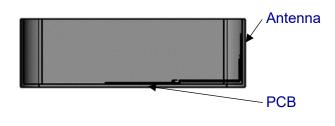
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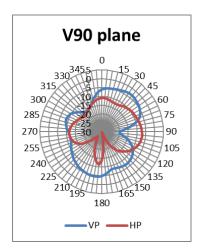
Radiation Characteristics - 2D Pattern (1990 MHz)

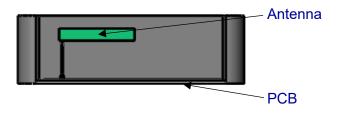
















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Packaging Information

Pieces per bag: 100 pieces

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