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External Outdoor Antenna for 2.4GHz Application

Pulse Part Number: W5001, W5010 and W5011



Features

- Antenna size W5001: 18.2x128.05 mm
  W5010: ø10x130.09 mm
  W5011: ø10x130.09 mm
- Ingress Protection IP65
- UV protection
- RoHS Compliant Product
- Connector Type W5001: Fixed right angle RP-SMA (Male Body, Female Pin)
  W5010: Straight RP-SMA (Male Body, Female Pin)
  W5011: Straight RP-SMA (Male Body, Male Pin)

Applications

- Zigbee 802.15, ISM 2.4GHz
- Metering, Security, M2M Applications

Part Numbers:

P/N	Connector
W5001	Fixed Right Angle RP- SMA(Male)
W5010 W5011	Straight RP-SMA(Male) Straight SMA (Male)

Electrical specifications @ +25 °C

W5001, W5010 and W5011 Typical free space performance

Frequency Range [MHz]	Max Gain [dBi]	Efficiency [%] / [dB]	Return loss min. [dB]	Impedance [Ω]	Operating Temperature [°C]
2400 - 2500	1.5	70/-1.5	-10	50	-40 to +85

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Pulse A TECHNITROL COMPANY

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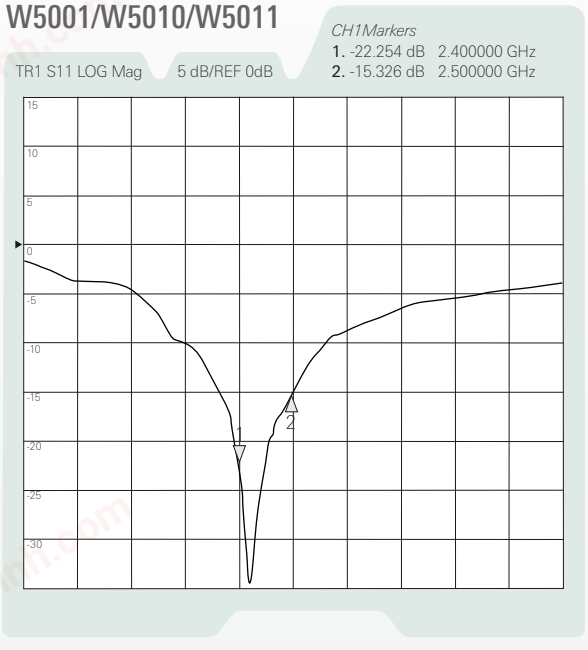
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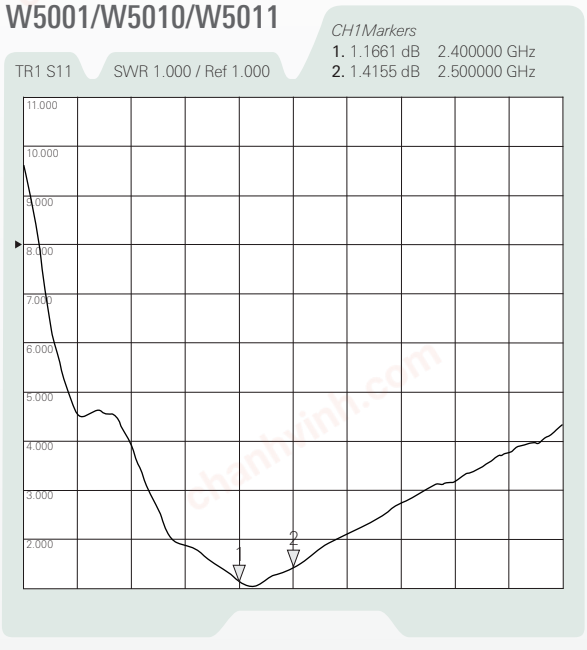
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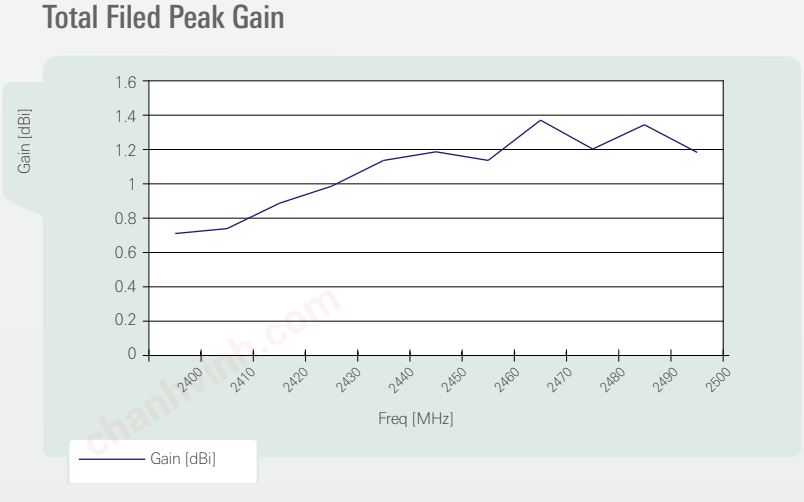
Typical Electrical Characteristics (free space, T=25 °C)

Typical Return Loss S11/ VSWR





Free Space Total Field Maximum Gain



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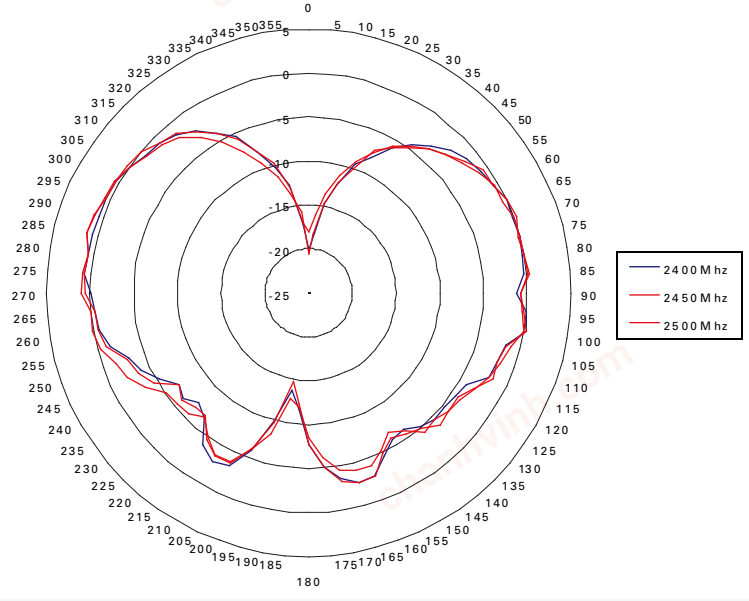
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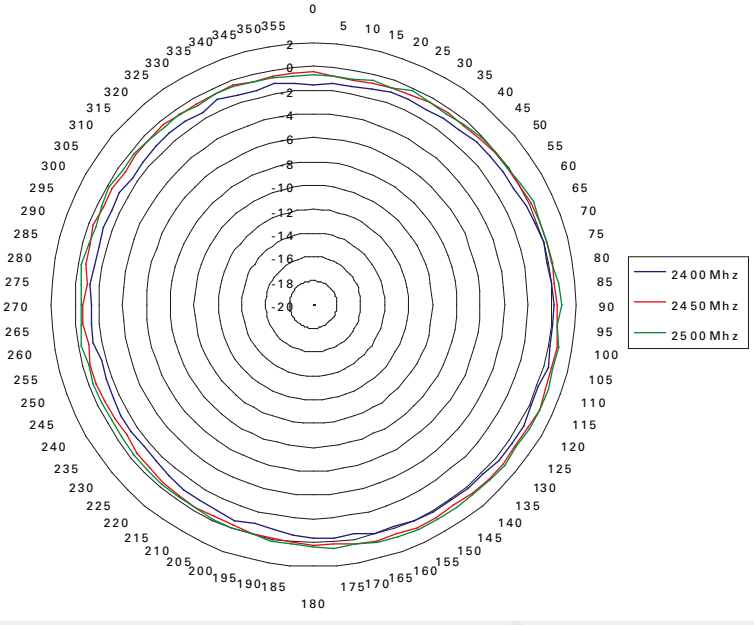
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Typical Free space Radiation Patterns

E Plane Radiation Pattern



H Plane Radiation Pattern



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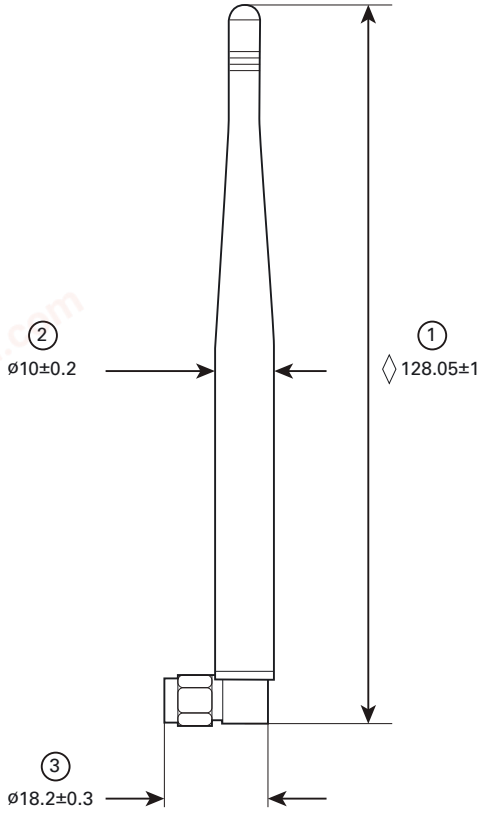
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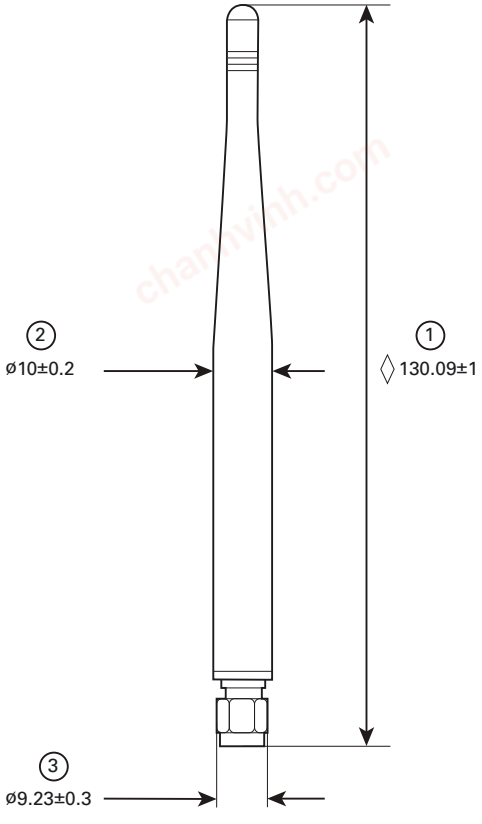
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Connector Configuration

W5001



W5010 & W5011



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