

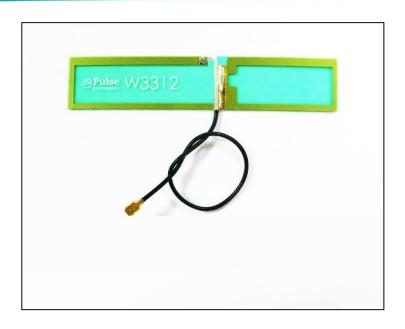
Series: Internal Antenna

TECHNICAL DATA SHEET

Description: ISM 868/915MHz PCB Antenna

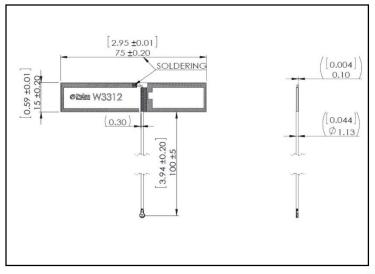
with coax feed

PART NUMBER: W3312B0100



Features:

- 863-928MHz
- Size 75x15 mm
- Flexible PCB thickness 0.1 mm with adhesive tape
- Mounting with 3M467 adhesive tape on back side
- 100mm 1.13mm OD coax cable with U.FL connector



Applications:

- Devices with ISM 868MHz / 915MHz radios
- M2M, IoT
- Metering, Industry automation
- Instrumentation

All dimensions are in mm / inches

Issue: 1639

In the effort to improve our products, we reserve the right to make changes judged to be necessary. CONFIDENTIAL AND PROPRIETARY INFORMATION

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| ELECTRICAL SPECIFICATIONS | | |
|---------------------------|---------|--------------|
| Frequency | 863-928 | MHz |
| Nominal Impedance | 50 | Ω |
| Return loss | -8 | dB |
| Efficiency | 45 | % |
| Peak Gain | 0.8 | dBi +/- 1 dB |
| Polarization: | linear | |
| Power withstanding | 2 | W |

Note: All RF data measured with 1.5mm polycarbonate plate to simulate loading effect of real device housing.





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MECHANICAL SPECIFICATIONS

PCB type Flexible

Radiator size 15[0.59] x 75[2.95] mm[inch]

Adhesive 3M467

Total thickness (Radiator+adhesive) 0.1[0.004] mm[inch]

Weight 0.74g

Cable type OD 1.13mm coax

Cable length 100[3.94] mm[inch]

Connector U.FL compatible

ENVIRONMENTAL SPECIFICATIONS

Operating temperature -40/+85 ° C





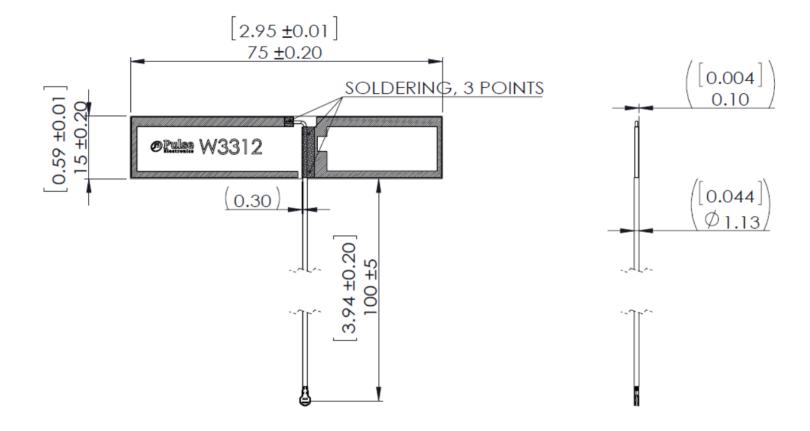
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MECHANICAL DRAWING





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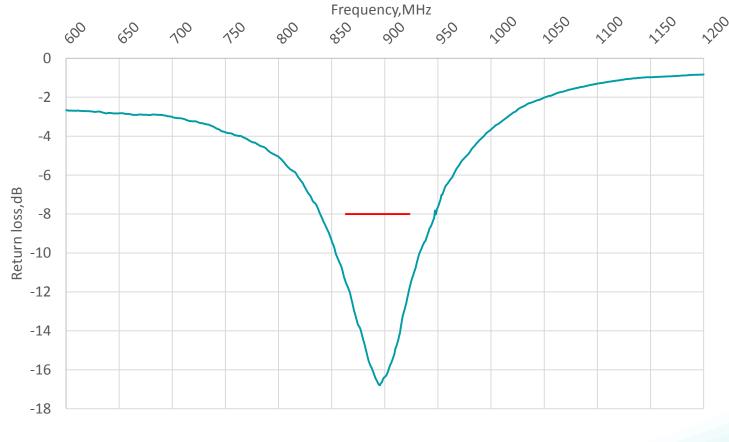
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CHARTS

Return loss

Return loss vs Frequency measured with 1.5mm polycarbonate plate W3312B0100 measured in PSU , September 18,2016



——W3312B0100 ——spec





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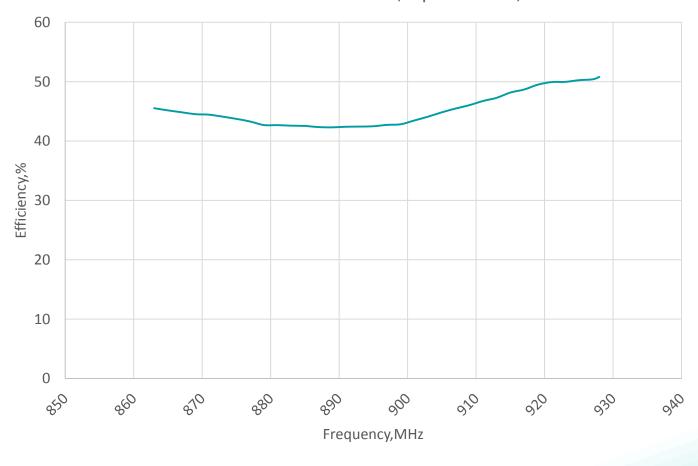
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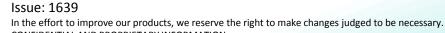
CHARTS

Efficiency

Efficiency vs Frequency measured with 1.5mm polycarbonate plate W3312B0100 measured in PSU ,September 18,2016



---W3312B0100



use without specific written authorization of Pulse is strictly forbidden.





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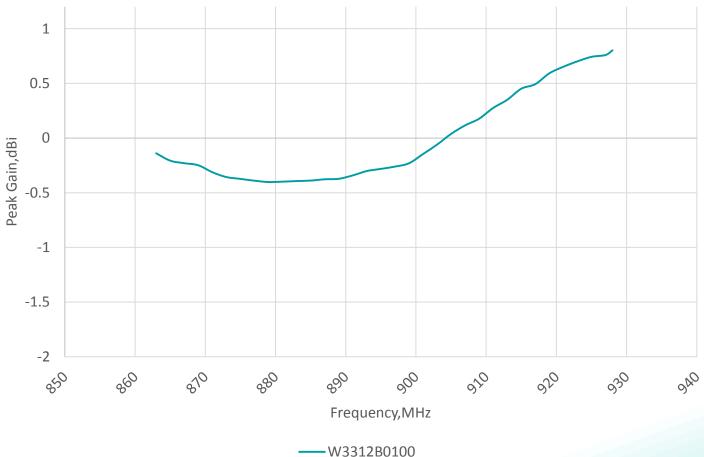
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CHARTS

Peak Gain

Peak Gain vs Frequency measured with 1.5mm polycarbonate plate W3312B0100 measured in PSU, September 18,2016









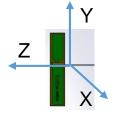
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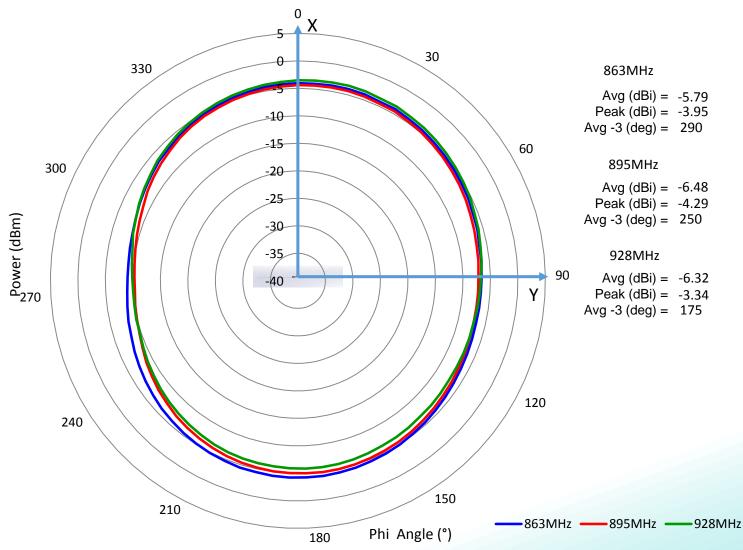
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CHARTS



Gain Plots





Issue: 1639





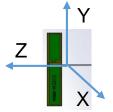
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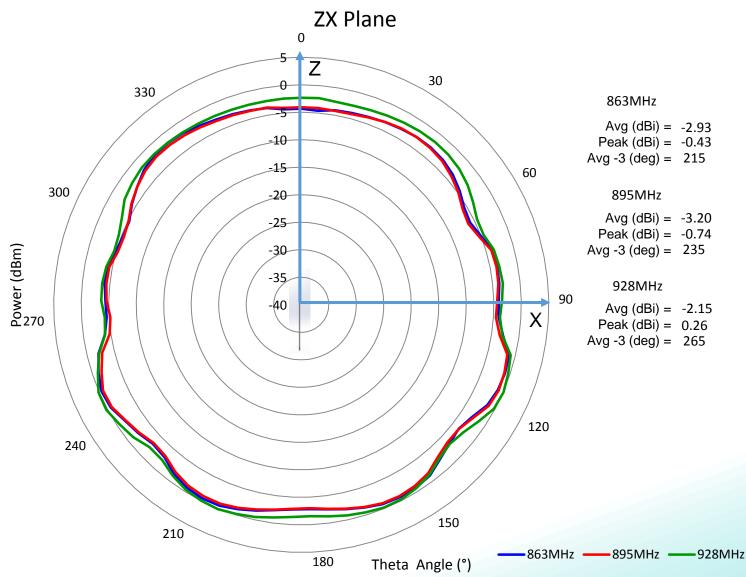
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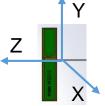
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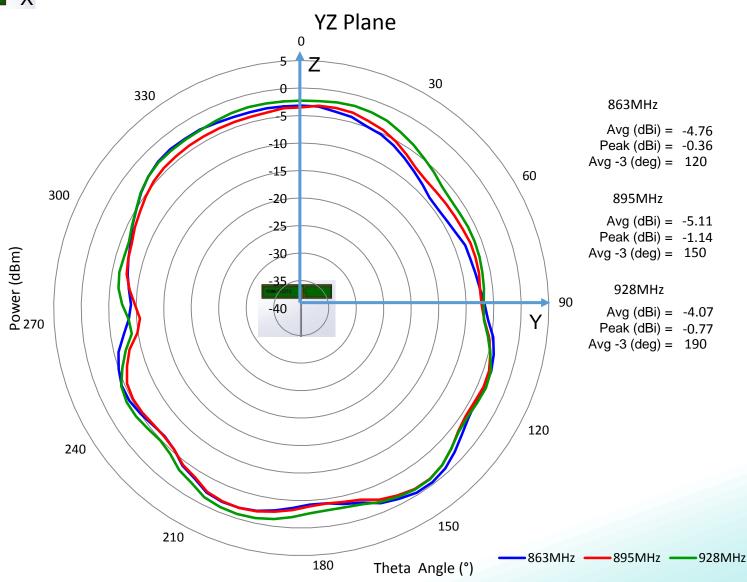
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PACKAGING

10PCS/PE bag 10 PE bag/foam bag 15 foam bag/carton box

Total 1500PCS/carton box



