

Description: ISM868/915MHz, 2.4GHz Antenna

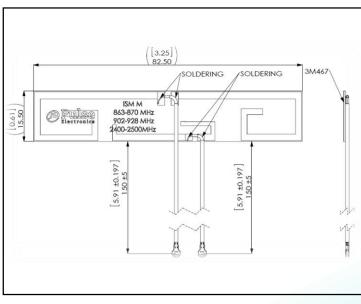
PART NUMBER: W3332B0150

Series: Internal



Features:

- Tri-band dual feed ISM antenna
- PCB radiator with two pigtail coax feeds (815/915MHz and 2.4GHz)
- Size 15.5x82.5x0.5mm
- U.FL compatible connectors



Applications:

- Devices using ISM band radios 868MHz, 915MHz, 2.4GHz
- Machine to Machine, IoT
- Data terminals and routers using ISM bands
- 2.4-2.5GHz band also applicable for Bluetooth, BLE Zigbee. WiFi

All dimensions are in mm / inches

Issue: 1649

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

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ELECTRICAL SPECIFICATIONS

Cable 1		
Frequency	863-928	MHz
Nominal Impedance	50	Ω
Return loss(max)	-5	dB
Peak Gain	0.2	dBi
Average Efficiency	55	%
Cable 2		
Frequency	2400-2500	MHz
Nominal Impedance	50	Ω
Return loss(max)	-10	dB
Peak Gain	4.1	dBi
Average Efficiency	64	%
Isolation between cable 1 and cable 2		
@863-928MHz	-16	dB
@2400-2500MHz	-11	dB





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MECHANICAL SPECIFICATION	S
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PCB material FR4

PCB thickness 0.5 mm

Adhesive 3M467

Cable type OD 1.13mm coax

Cable length 150 mm

Connector U.FL compatible

ENVIRONMENTAL SPECIFICATIONS

Operating temperature

-40/+85 ° C

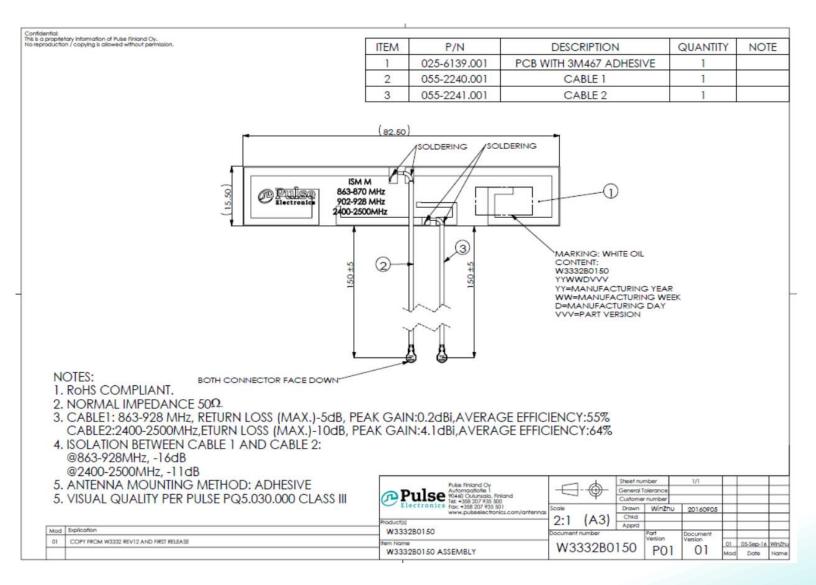


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MECHANICAL DRAWING







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CHARTS

Return loss







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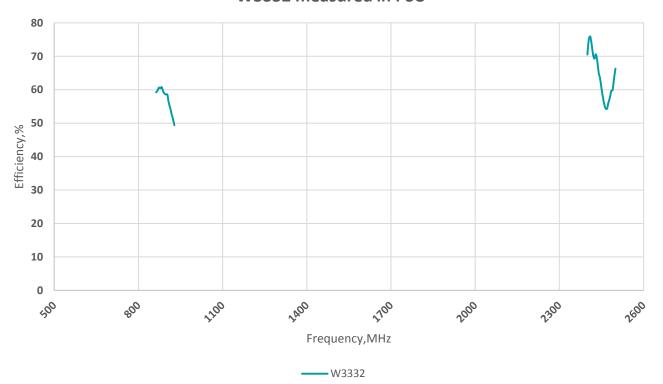
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CHARTS

Efficiency

Efficiency vs Frequency measured in free space W3332 measured in PSU





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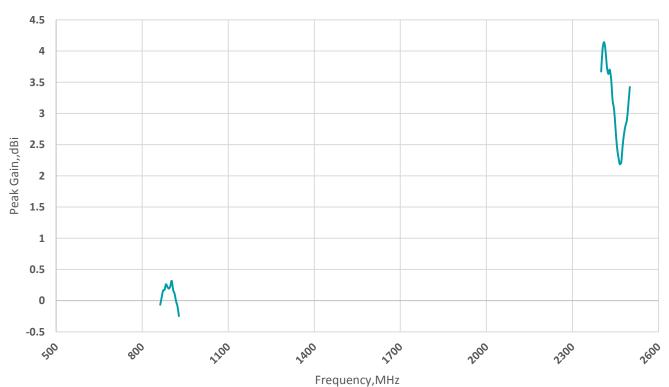
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CHARTS

Peak Gain

Peak Gain vs Frequency measured in free space W3332 measured in PSU



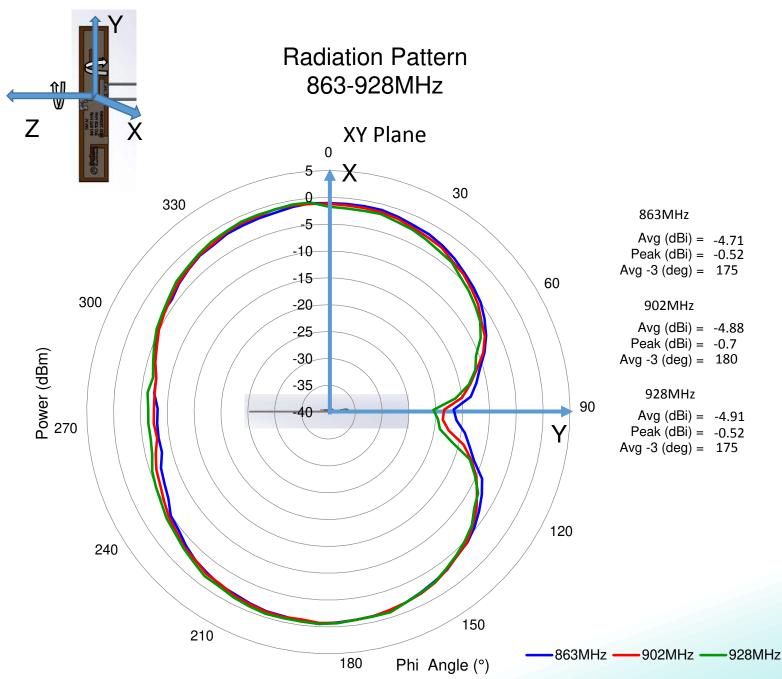


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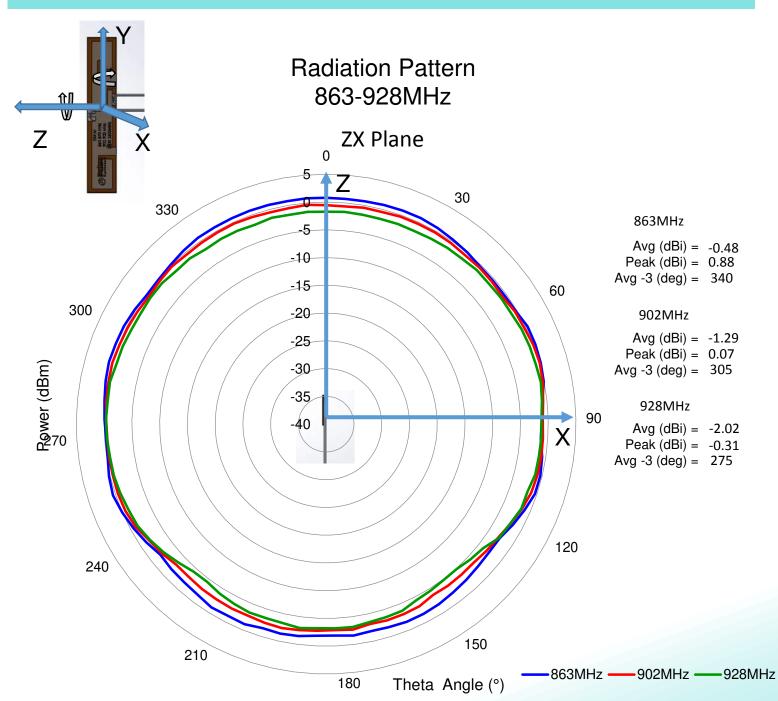


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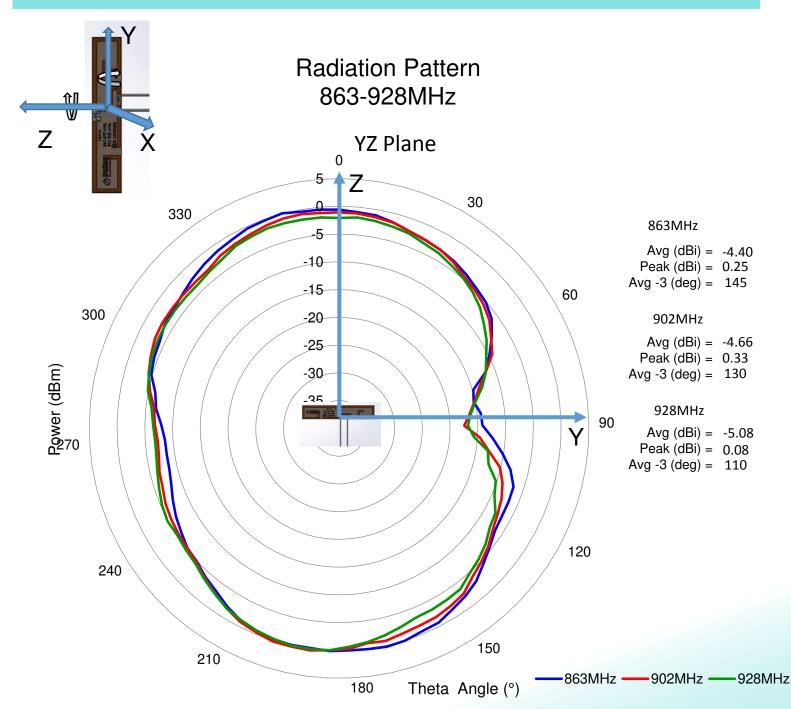


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CHARTS







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CHARTS Radiation Pattern 2400-2500MHz Z XY Plane 0 30 330 2400MHz Avg (dBi) = -1.91-10 Peak (dBi) = 2.27 Avg - 3 (deg) = 145-15 60 300 -20 2450MHz Avg (dBi) = -1.54-25 Peak (dBi) = 1.39 Rower (dBm) -30 Avg - 3 (deg) = 185-35 2500MHz 90 40 Avg (dBi) = -1.52Peak (dBi) = 1.06 Avg - 3 (deg) = 225120 240 150 210 2400MHz 2450MHz 180 Phi Angle (°)

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2500MHz

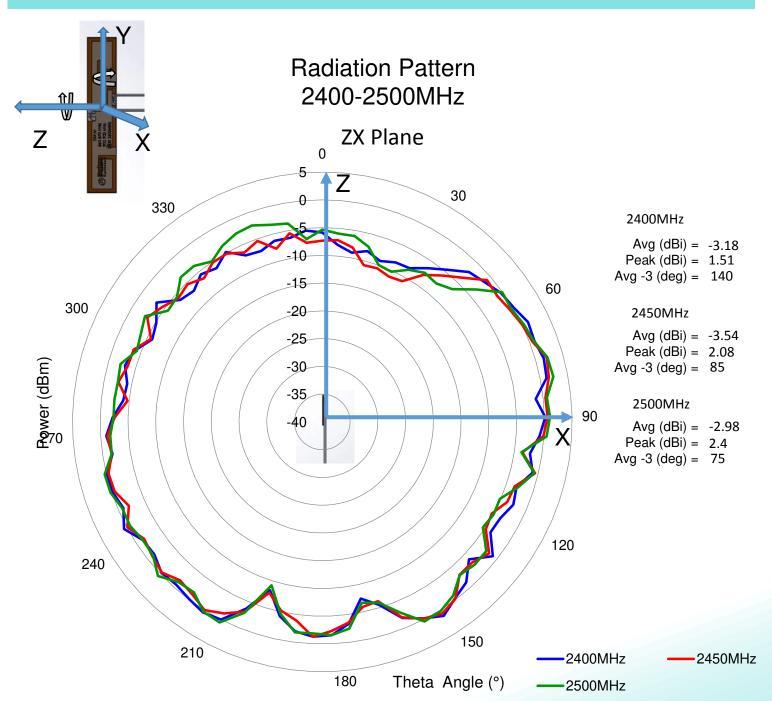


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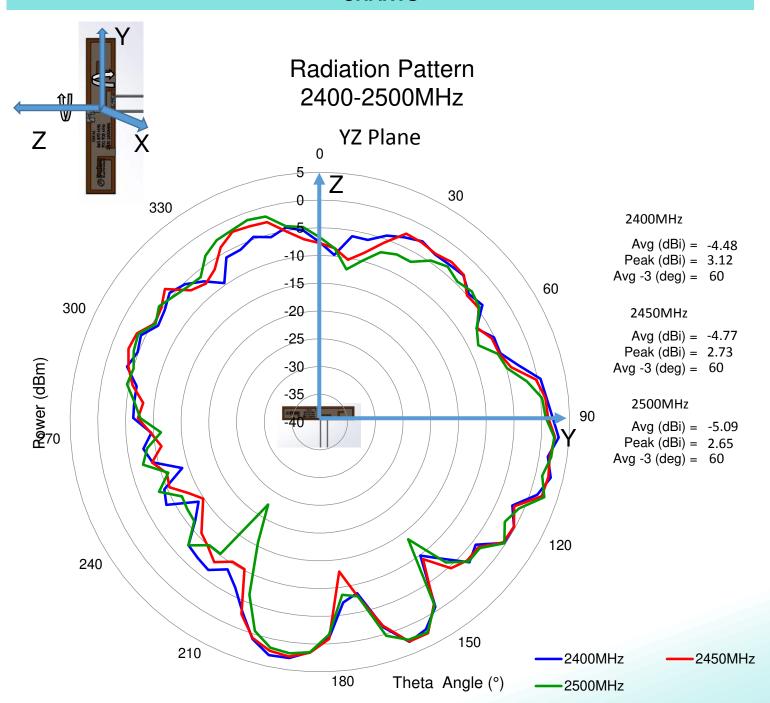


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PACKAGING

10PCS/PE bag 1000PCS/box

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