

Description: Wide Band LTE Monopole Antenna

Series: Internal PCB Antenna

PART NUMBER: W3404SMA



Features:

- Vertical mount on PCB
- Size W x L x H
 - 42.4 x 31.0 x 0.7mm
- Gain 2.2 / 4.4 dBi
- Efficiency 80 / 66 %
- RoHS compliant
- SMA male connector

Applications:

- LTE 698-960 MHz, LTE 1710-2690 MHz.
- GSM bands (GSM850, EGSM900, PCN1800, PCS1900), WCDMA band 1
- LTE Cat1M
- NBIoT

All dimensions are in mm / inches

Issue: 1850

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ELECTRICAL SPECIFICATIONS

Antenna Type	Vertical mount monopole
Frequency	698-960/1710-2690 MHz
Nominal Impedance	50 Ω
Return Loss	-10 dB
Radiation Pattern	Omni
Average Total Efficiency (698-960MHz)	80%
Average Total Efficiency (1710-2690MHz)	66%
Peak Gain (698-960MHz)	2.2 dBi
Peak Gain (1710-2690 MHz)	4.4 dBi
Polarization	Linear
Power Withstanding	3W

All RF parameters measured on 70mm X 140mm evaluation board.



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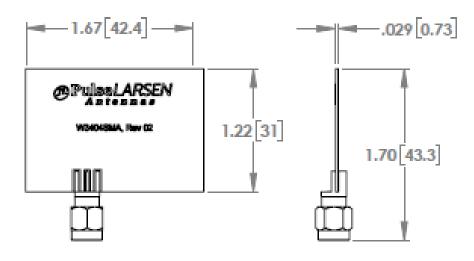
MECHANICAL SPECIFICATIONS

Overall Length Antenna Color / Material Connector type Weight 42.4 x 31.0 x 0.7mm PCB black Edge mount SMA Plug 15g

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature Storage Temperature RoHS Compliant 40 - 85° C 5 - 23° C Yes

MECHANICAL DRAWING



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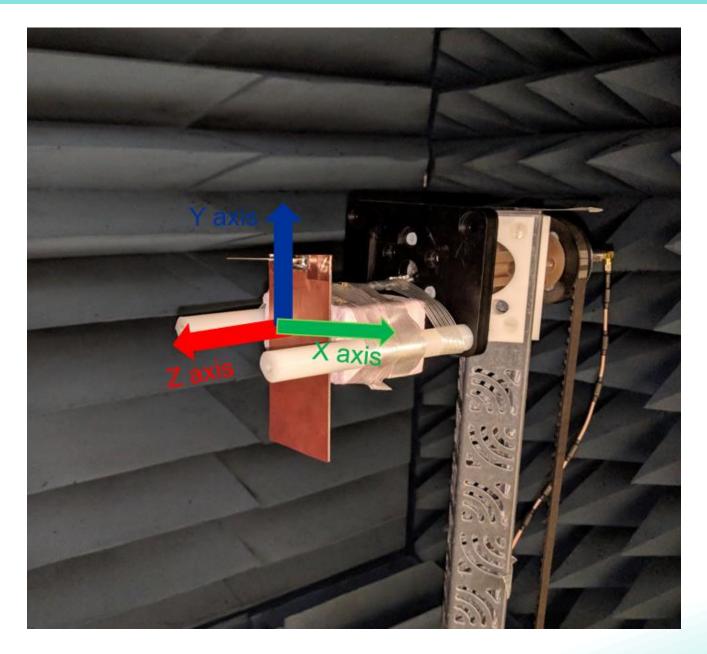


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TEST SETUP



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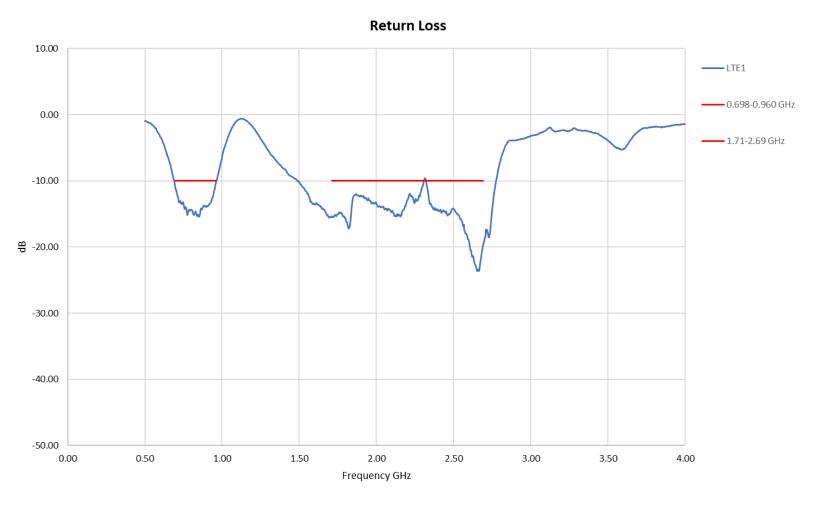
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CHARTS

Return Loss



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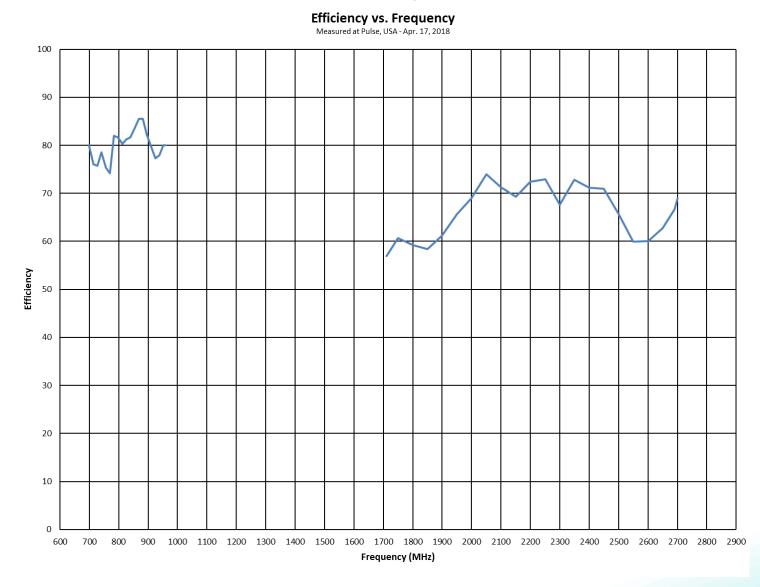
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CHARTS

Efficiency %



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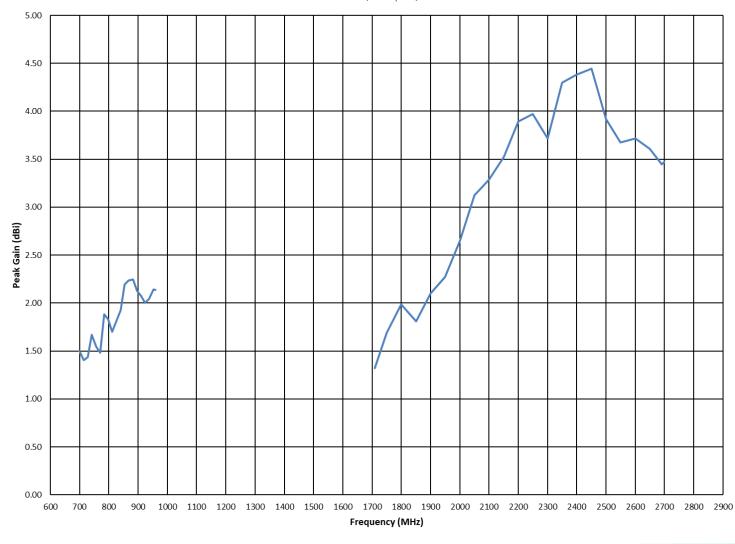
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CHARTS

Peak Gain

Peak Gain vs. Frequency Measured at Pulse, USA - Apr. 17, 2018



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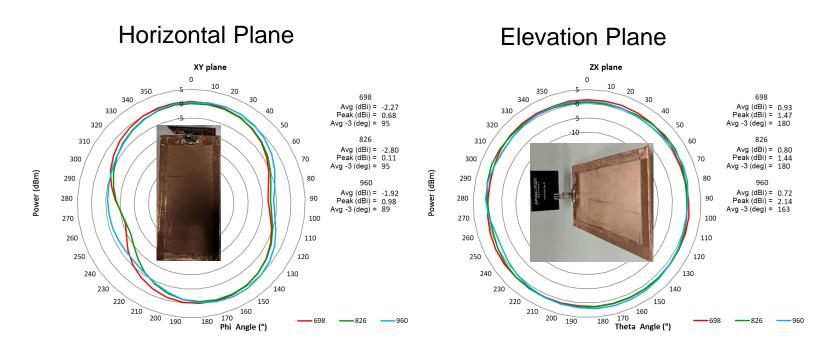
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CHARTS

Free space radiation pattern: 698 MHz- 960 MHz



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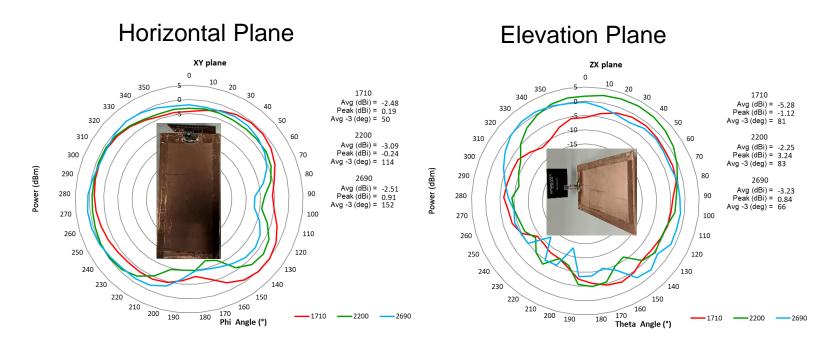
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Free space radiation pattern: 1710 MHz- 2690 MHz



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PACKAGING

Per package tray24pcs productPer carton box19pcs tray + 1pcs extra empty trayTotal:456 pcs productBig box dimensions (MM):285x375x200MM

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