

TECHNICAL DATA SHEET

Description:

Tri-Band 868/915/2400-2500MHz, Straight

PART NUMBER: W1698/W1699/W1698-M



W1698 / W1699

Features:

- Small form factor monopole
- Antenna size W x H:

W1698 / W1699 (10.4 x 49.6mm)

W1698-M (12 x 50mm)

- Connector Type:

W1698 SMA (male)

W1699 RP-SMA (male)

W1698-M SMA (male)

- RoHS Compliant Product



W1698-M

Applications:

- Tri-band Combo
- Frequency range:
 868 / 915 / 2400 2500 MHz
- IoT, M2M Applications
- Sigfox, Lora
- Bluetooth, BLE, WiFi

All dimensions are in mm

Issue: 2433

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 868-928MHz

2400-2500MHz

Nominal Impedance 50Ω

VSWR 3 868-928MHz

3 2400-2500MHz

Peak Gain 0.3dBi 868-928MHz

1.2dBi 2400-2500MHz

Efficiency 64% / 70%

Radiation Pattern Omni

Polarization: Linear

Power withstanding 5W

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MECHANICAL SPECIFICATIONS

Weight W1698 / W1699: 7.5g

W1698-M: 7.8g

Antenna Color Black

Connector type W1698/W1698-M SMA(Male)

W1699 RP-SMA(Male)

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature -40/+85 ° C

Storage Temperature -40/+85 ° C

Ingress Protection IP65 (W1698-M)

IP42 (W1698 and W1699)

Wind-loading 100km/h

RoHS Compliant Yes





TECHNICAL DATA SHEET

Description:

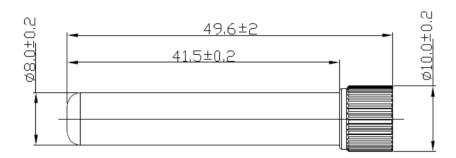
Tri-Band 868/915/2400-2500MHz, Straight

PART NUMBER: W1698/W1699/W1698-M

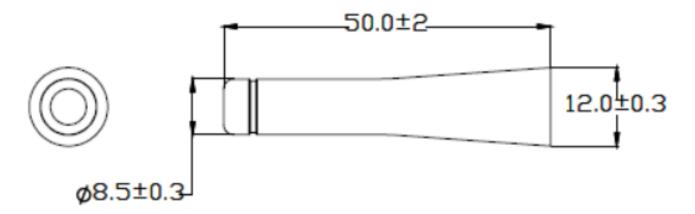
Series: Stubby Antenna

MECHANICAL DRAWING

W1698 / W1699



W1698-M





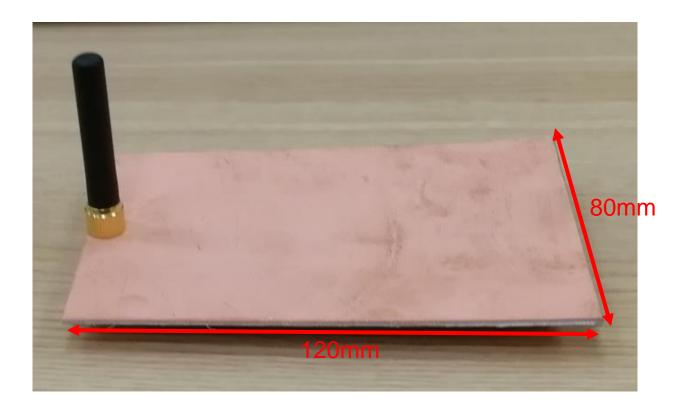
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TEST SETUP



Test with 80mm*120mm ground plane.





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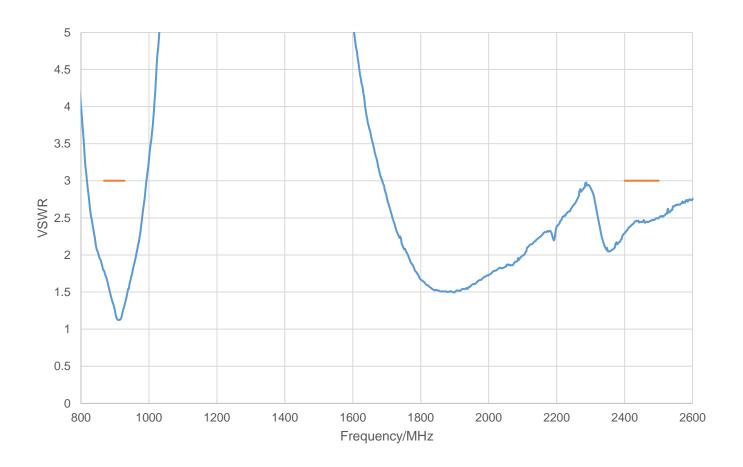
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CHARTS

Return Loss vs Frequency







TECHNICAL DATA SHEET

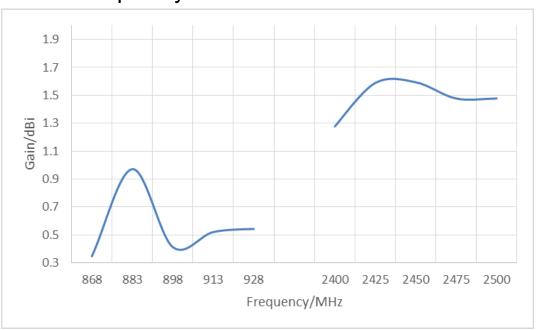
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Tri-Band 868/915/2400-2500MHz, Straight

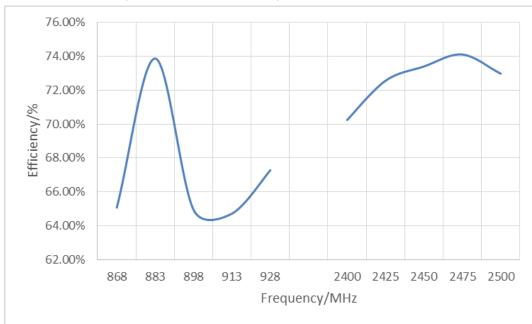
PART NUMBER: W1698/W1699/W1698-M

CHARTS

Peak Gain vs Frequency



Radiation Efficiency vs Frequency



Issue: 2433





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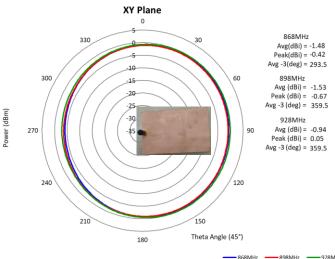
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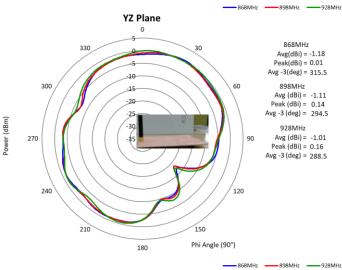
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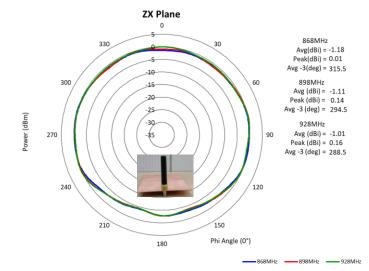
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CHARTS

Free Space Radiation Pattern(868-928MHz)









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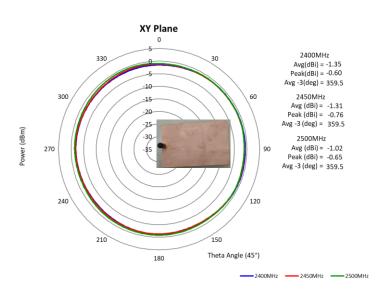
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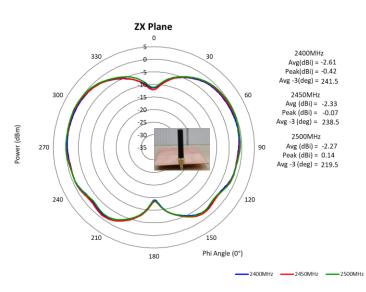
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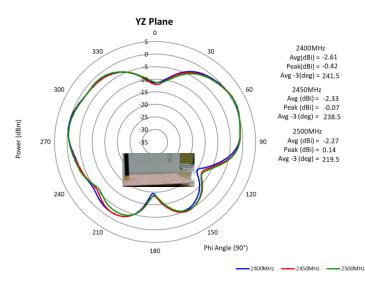
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CHARTS

Free Space Radiation Pattern(2400-2500MHz)











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PACKAGING

1pcs antenna per PE bag

24pcs PE bags per tray

14pcs trays per package box(2 pcs empty tray)

288pcs antenna per package

Package box: 460mm*235mm*140mm