

TECHNICAL DATA SHEET Description: 902-928MHz Ceramic Directional 5dBi Antenna

Series: Patch Antenna

PART NUMBER: W3215



Features:

- Frequency 902-928MHz
- Peak Gain +5dBi
- Polarization Linear
- Size 40 x 40 x 6 mm
- Pin feed
- Adhesive tape mount
- RoHS Compliant

Applications:

- ISM 915MHz radios
- IoT Devices
- Smart traffic signs
- Lighting controls
- Monitoring

All dimensions are in mm / inches

Issue: 1850

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Description: 902-928MHz Ceramic Directional 5dBi Antenna

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ELECTRICAL SPECIFICATIONS

Antenna Type Frequency Nominal Impedance Peak Return Loss Return Loss (902M~928M) Peak Gain Gain (902M~928M) Peak Efficiency Efficiency (902M~928M) Polarization Radiation Pattern – Vertical plane Radiation Pattern – Horizontal plane Patch Antenna 902-928MHz 50 Ω -20dB <-4dB 4.5 dBi >1.4dBi 70% >37% Linear – Vertical Omni Directional

MECHANICAL SPECIFICATIONS

Overall size Weight Connection type 40 x 40 x 6.0 mm 37g Pin soldering, adhesive tape

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature Storage Temperature RoHS Compliant

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-40~+85 °C -40~+85 °C Yes

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MECHANICAL DRAWING



NO.	Description	Structure and material
1	Antenna Substrate	Dielectric Ceramics
2	Pin	Copper and tinplated
3	Electrode	Ag Plated
4	Ground Base	Ag Plated
5	Adhesive type	NITTO 5000NS

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TEST SETUP FOR RF MEASUREMENTS



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CHARTS

Return Loss



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CHARTS

Radiation Efficiency



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CHARTS

Peak Gain



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CHARTS

Radiation pattern(2D) XY Plane



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CHARTS

Radiation pattern(2D) ZX Plane



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CHARTS

Radiation pattern(2D) YZ Plane



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PACKAGING

Per package tray21 elementsPer vacuum bag4 package basesPer inner box1 vacuum bagPer package4 inner boxesTotal:336 pcsBig box dimensions (MM):365X365X160MM

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