

DATASHEET Part No. 9001999 Product: SDARS Ceramic Patch Antenna

Part No. 9001999 **SDARS Ceramic Patch Antenna**

2320 – 2345 MHz

Supports: Satellite Digital Audio Radio Systems, SirusXM, Digital high-fidelity (hi-fi) audio entertainment



KYOCERA AVX antennas deliver on the key needs of device designers for higher functionality and performance in smaller/thinner designs. This antenna is mounted using double sided adhesive and through-hole solder pin. This innovative antenna provides compelling advantages for SDARS enabled devices ideal for on roof applications.

SDARS Ceramic Patch Antenna

2320 – 2345 MHz

KEY BENEFITS

Reduced Costs and Time-to-Market

Standard antenna eliminates design fees and cycle time associated with a custom solution; getting products to market faster.

Quicker Time-to-Market

By optimizing antenna size, performance and emissions, customer and regulatory specifications are more easily met.

Environmental Compliance

Products are the latest RoHS version compliant.

APPLICATIONS

- Satellite Digital Internet of Audio Radio Service (SDARS),
- Ideal for automotive applications
- Things (IoT), Remote technology monitoring, • Mapping
- systems.

Electrical Specifications

Typical Characteristics, on 150 x 150 mm ground plane

Frequency	SDARS 2320 – 2345 MHz	
Frequency	2330 MHz	2340 MHz
Return Loss	< -11 dB	
Zenith Gain	6.5 dBic	
Axial Ratio	< 2.8 dB	< 0.5 dB
Polarization	L.H.C.P	
Impedance	50 Ω	

Mechanical Specifications & Ordering Part Number

Ordering Part Number	9001999
Size (mm)	25.0 x 25.0 x 4.00
Mounting	Adhesive tape and solder pin
Weight (grams)	8.22
Packaging	Tray



KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs

Return Loss and Peak Gain Plots

Typical performance on 150 x 150 mm PCB



Peak Gain



TDS-ANT-0103 | Rev 0

tel +(1) 858.550.3820 email: antenna.info@kyocera-avx.com 1 Avx Blvd, Fountain Inn, SC 29644



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Axial Ratio Plots

Typical performance on 150 x 150 mm PCB



Axial Ratio Phi = 90°



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L.C.H.P Plot

Typical performance on 150 x 150 mm PCB





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Antenna Radiation Patterns

Typical performance on 150 x 150 mm PCB







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Mechanical Dimensions

Typical antenna dimensions (mm)

SDARS Ceramic Patch Antenna Specifications.

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Part Number A B C 9001999 25.00 ± 0.20 25.00 ± 0.20 4.00 ± 0.20



C 02.5 00.82±0.03 02.5 02.5 02.5 02.5 02.5 02.5





Adhesive Liner View (Bottom)