

Part No. 9000468 ISM 868 MHz Ceramic Patch Antenna

ISM868: (863-870) MHz

Supports: : RFID, Tracking, Industrial Devices, Remote Instrumentation, Control Access



KYOCERA AVX series of ISM Ceramic Patch Antennas deliver on the key needs of device designers for higher functionality and performance in M2M designs. These innovative antennas provide compelling advantages for ISM 868 MHz enabled M2M applications such as vehicle tracking.

Electrical Specifications

Typical Characteristics on 70 x 70 mm rectangle PCB

ISM 868 MHz Ceramic Patch **Antenna** 863-870 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

- Embedded design
- Remote instrumentation
- Tracking
- M2M
- **Control Access**
- Industrial
- **Devices**

Frequency	ISM 868 MHz (863 - 870) MHz	
Peak Gain	1.0 dBi	
Average Efficiency	54%	
VSWR	2.2:1	
Gain @ Zenith	0.1 dBi	
Axial Ratio	5.1 dB (θ=0, Φ=0), 4.9 dB (θ=0, Φ=90)	
Power Handling	2 Watt CW	
Feed Point Impedance	50 Ω unbalanced	
Polarization	R.H.C.P	
Radiation Pattern	Omni-Directional	

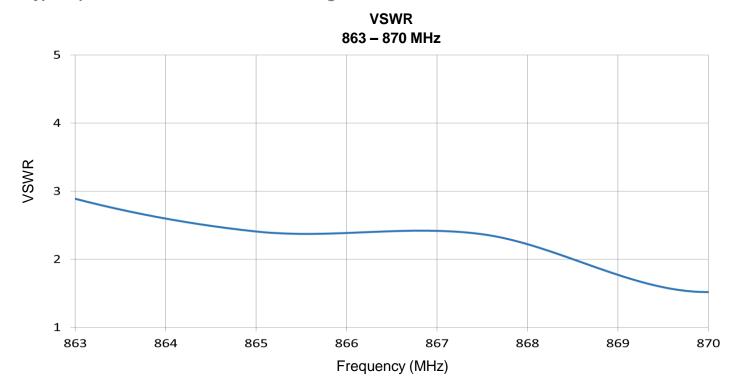
Mechanical Specifications & Ordering Part Number

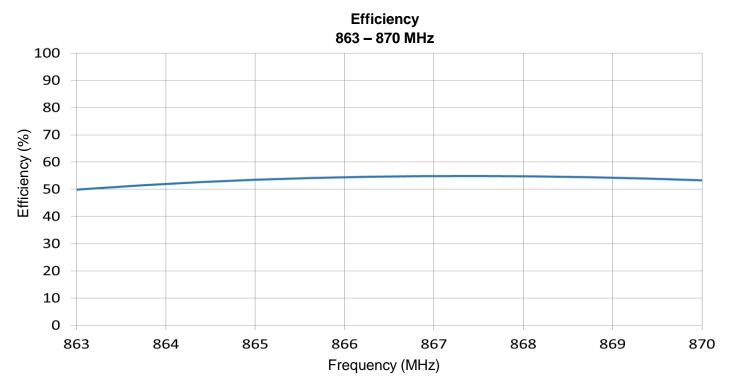
Ordering Part Number	9000468	
Size (mm)	36.0 x 36.0 x 6.0	
Mounting	Adhesive & Pin	
Weight (grams)	35.9	
Packaging Tray		



VSWR and Efficiency Plots

Typical performances on 70 x 70 mm rectangle PCB

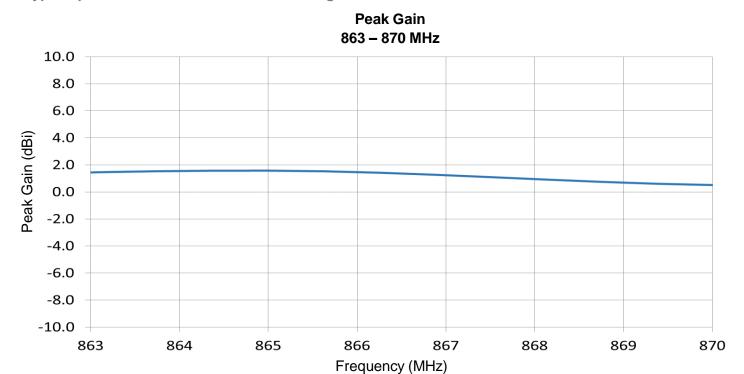


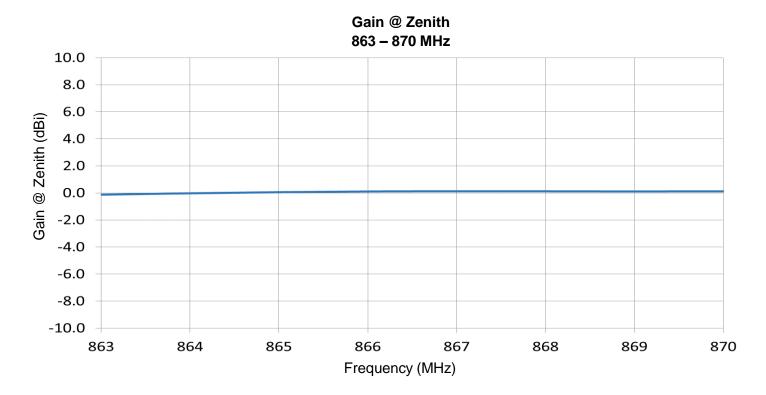




Peak Gain and Gain at Zentih Plot

Typical performances on 70 x 70 mm rectangle PCB

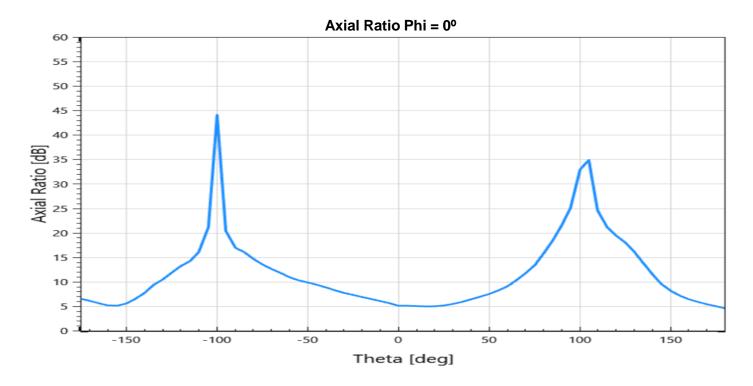


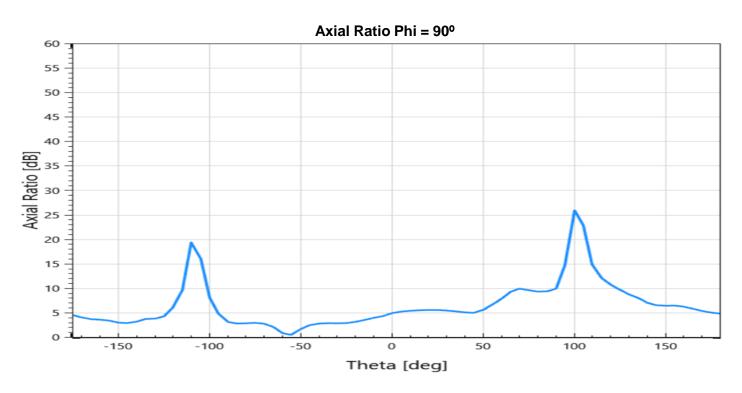




Axial Ratio Plots

Typical performances on 70 x 70 mm rectangle PCB

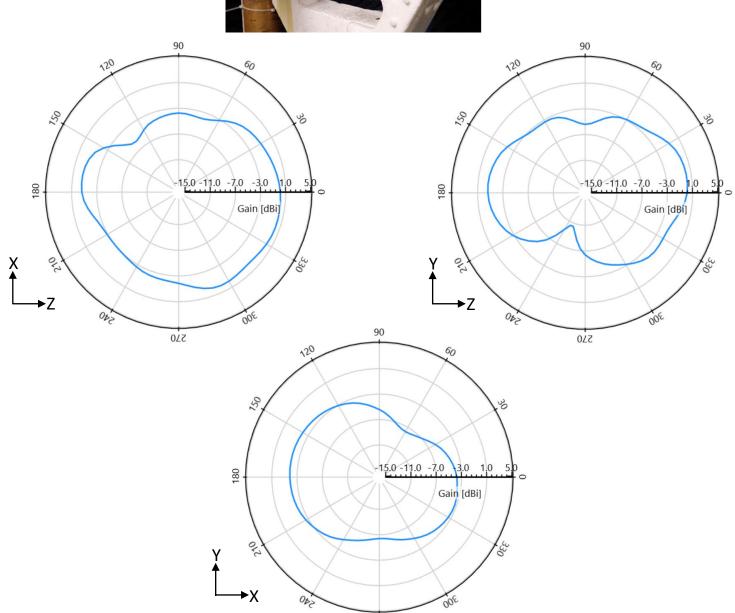






Antenna Radiation Patterns

Typical performances on 70 x 70 mm rectangle PCB Measured @ 868 MHz Z

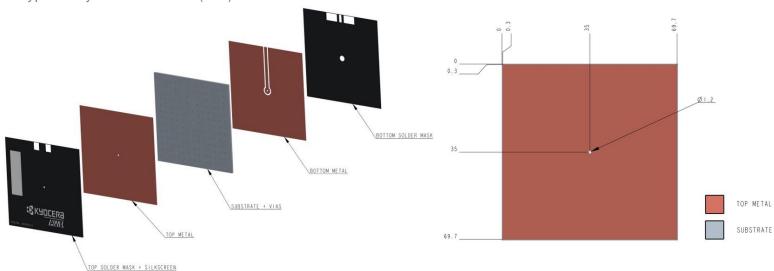


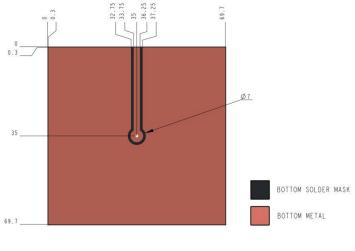
270

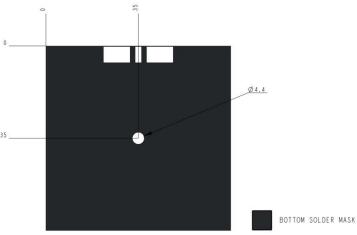


Antenna Layout

Typical Layout Dimensions (mm)





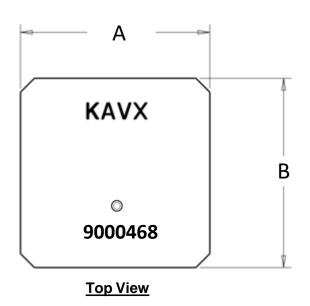


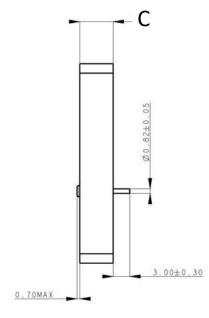


Mechanical Dimensions

Typical antenna dimensions (mm)

Part Number	A	В	C
9000468	36.0 ± 0.4	36.0 ± 0.4	6.0 ± 2





Side View

