



Part No. X9001248-4GMSMB1000R

External Magnetic Mount LTE Antenna

700 / 800 / 900 / 1800 / 2100 / 2600 MHz

Supports: LTE Cat 1, LTE-M, SigFox, LoRa, NB-IoT, M2M applications, 2G, 3G, Cellular



KYOCERA AVX family of External antennas are designed to offer the best performances for a wide range of applications .X9001248 is specially developed to deliver stable Gain across 2G, 3G, 4G cellular bands. This antenna is designed to be mounted on a ground plane for optimal performance

Electrical Specifications

Typical Characteristics in Free Space and on 300 x 250 mm ground plane

Frequency (MHz)	Free space		On 300 x 250 mm Ground Plane	
	698 - 960	1710 - 2690	698 - 960	1710 - 2690
Return Loss	< -5.2 dB	< -5.8 dB	< -5.2 dB	< -6.0 dB
Average Peak Gain	-0.5 dBi	-0.2dBi	1.8 dBi	1.9 dBi
Average Efficiency	33 %		54%	36%
Impedance	50 ohm			

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Mechanical Specifications & Ordering Part Number

Ordering Part Number	X9001248-4GMSMB1000R	
Dimensions (mm)	112.0 height 29.0 base diameter	
Connector Type	SMA Male	
Weight (grams)	50.0	
Mounting	Magnetic	
Color	Black	
Cable	RG-174 / U (1 meter)	
Ingress Protection	IP65	
Operating Temperature (°C)	-40 to + 70	
Radome Material	TPE	

External Magnetic Mount LTE Antenna

Low Band : 698 – 960 MHz High Band : 1170 – 2690 MHz

KEY BENEFITS

Quicker Time-to-Market

Standard part means fewer design changes with, simple implementation
Easy Assembly using RP-SMA or SMA

Best in Class Performance

External antennas are designed to maintain high efficiency in a variety of device configurations

Great Flexibility

Standard connector to makes easy set-up

RoHS Compliant

Products are the latest RoHS version compliant.

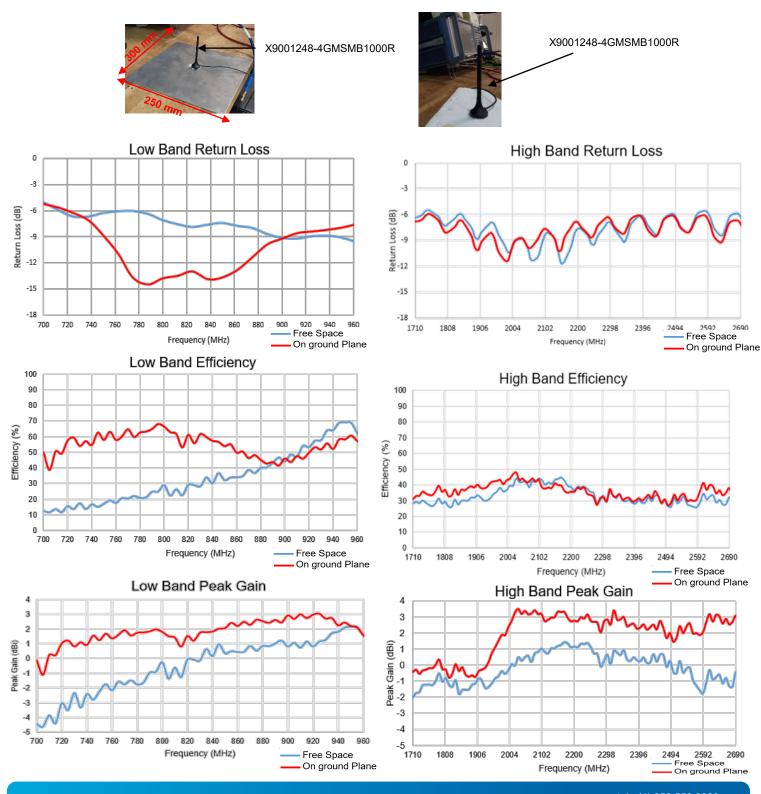
APPLICATIONS

- · Telematics
- Smart metering
- Home automation
- Smart city
- Structural health monitoring
- · Predictive maintenance
- M2M devices



Return Loss, Efficiency and Peak Gain Plots

Typical performance measured in Free Space and on a 300x250mm ground plane

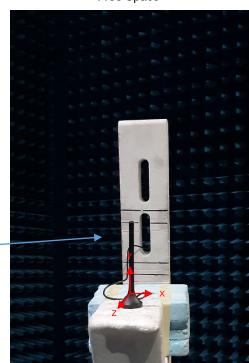




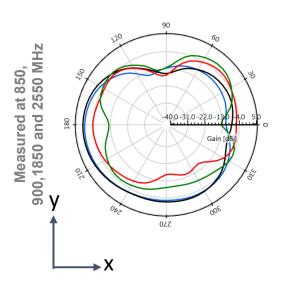
Radiation Patterns Plots

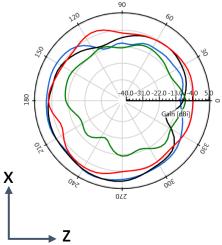
Typical performance measured in Free Space Measured at 850, 900, 1850 and 2550 MHz

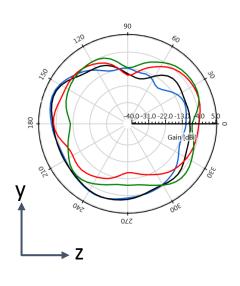
Free Space



X9001248-4GMSMB1000R





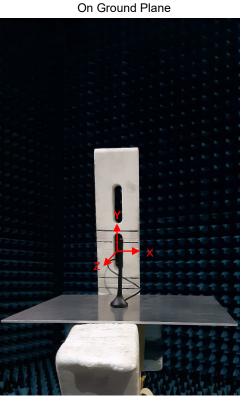


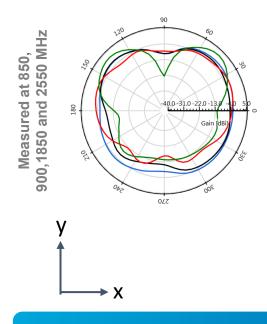
850 MHz 900 MHz 1850 MHz 2550 MHz

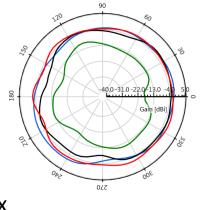


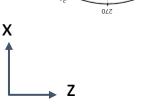
Radiation Patterns Plots

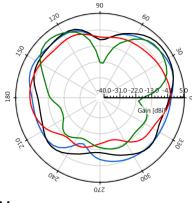
Typical performance measured on 300 x 250 mm ground Plane Measured at 850, 900, 1850 and 2550 MHz













Mechanical Specifications

Typical antenna dimensions in mm

Part Number	A (mm)	Ø (mm)	Connector
X9001248-4GMSMB1000R	112.0	29.0	SMA Male

