

GSM 2G 3G 4G LTE

MAGNETIC MOUNT ANTENNA



LTE-M

698-960 MHz | 1420-2690 MHz



P/N: AECM013



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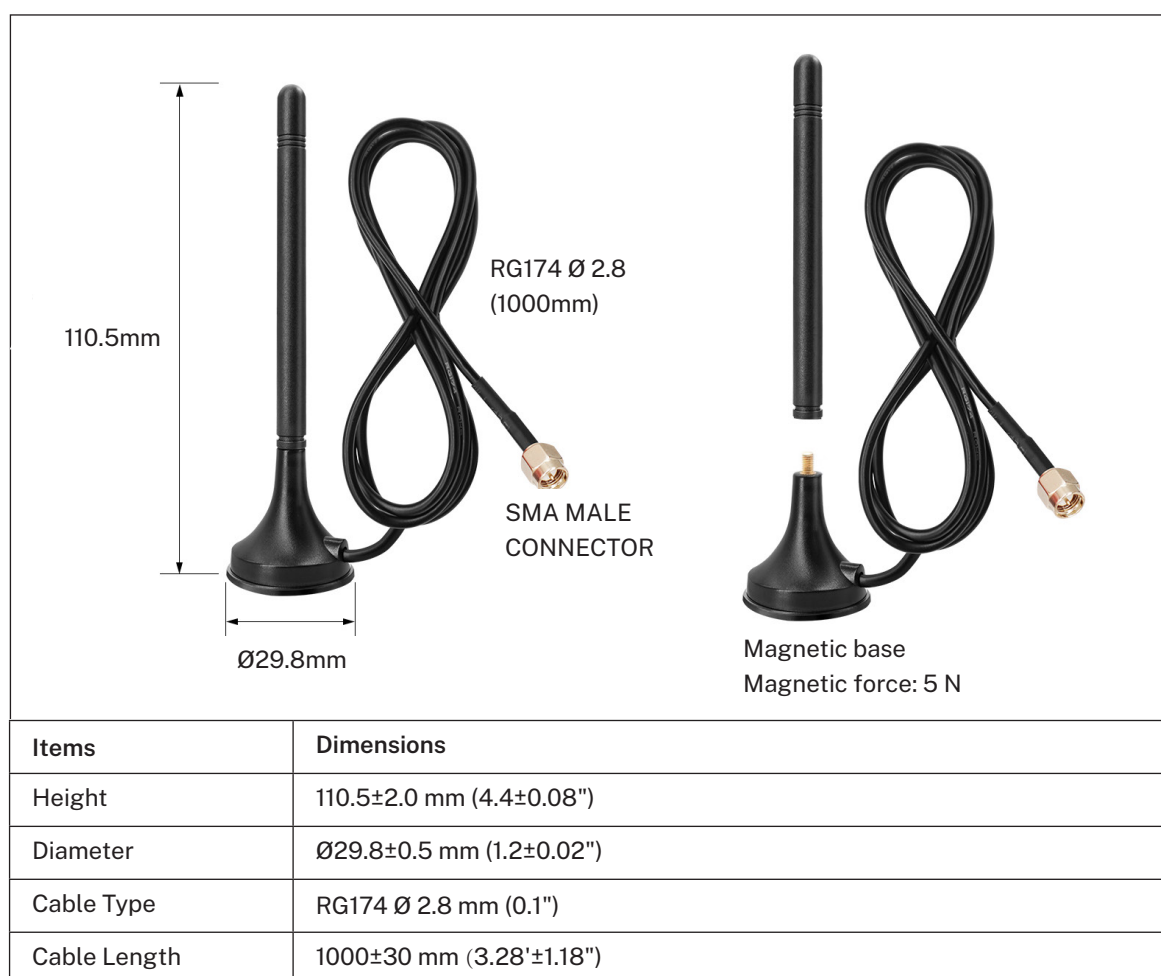
FEATURES & BENEFITS

- Omni-directional 4G Antenna
- Equipped with a magnetic base for easy and quick installation on metal surfaces
- Compact and portable, suitable for mobile applications and temporary setups
- Cost-Effective for boosting signal reception
- Cables and connectors customization supported

APPLICATIONS

Various 4G LTE solutions, including,

- Outdoor Events and Activities
- Vehicle Connectivity
- Remote Work and Temporary Sites
- Public Safety and Emergency Response
- Mobile Homes and Boats
- Temporary Connectivity Solutions such as disaster recovery, temporary offices, or pop-up events.





ORDER INFORMATION

Product Name	GSM 2G 3G 4G LTE Magnetic Mount Antenna
Part Number	AECM013
Dimensions	Ø29.8 x 110.5 mm
Weight	24 g
Color	Black
Mounting	Magnetic mount
Cable	Default RG174 Ø 2.8 x 1000 mm cable, customizable.
Connector	Default SMA MALE connector, customizable.

REFERENCE GUIDE

Technical Features	698-960 MHz	1427-2690 MHz
Max VSWR	3.39:1	3.45:1
Max Efficiency	76.61%	
Peak Gain	Up to 2.29 dBi (Typ)	
Max Input Power	10 Watts CW	
Radiation Pattern	Omnidirectional	
Polarization	Linear	
Input Impedance	50 Ω	
Operating Temperature	-40°C to +85°C	
Storage Temperature	-40°C to +85°C	
Relative Humidity	10 to 70%	
Material Substance Compliance	RoHS Compliant	
Dimensions (L x W x H)	Ø29.8 x 110.5 mm	

All data were measured on metal surface with a RG174 1-meter-long coaxial cable. Application data might vary.

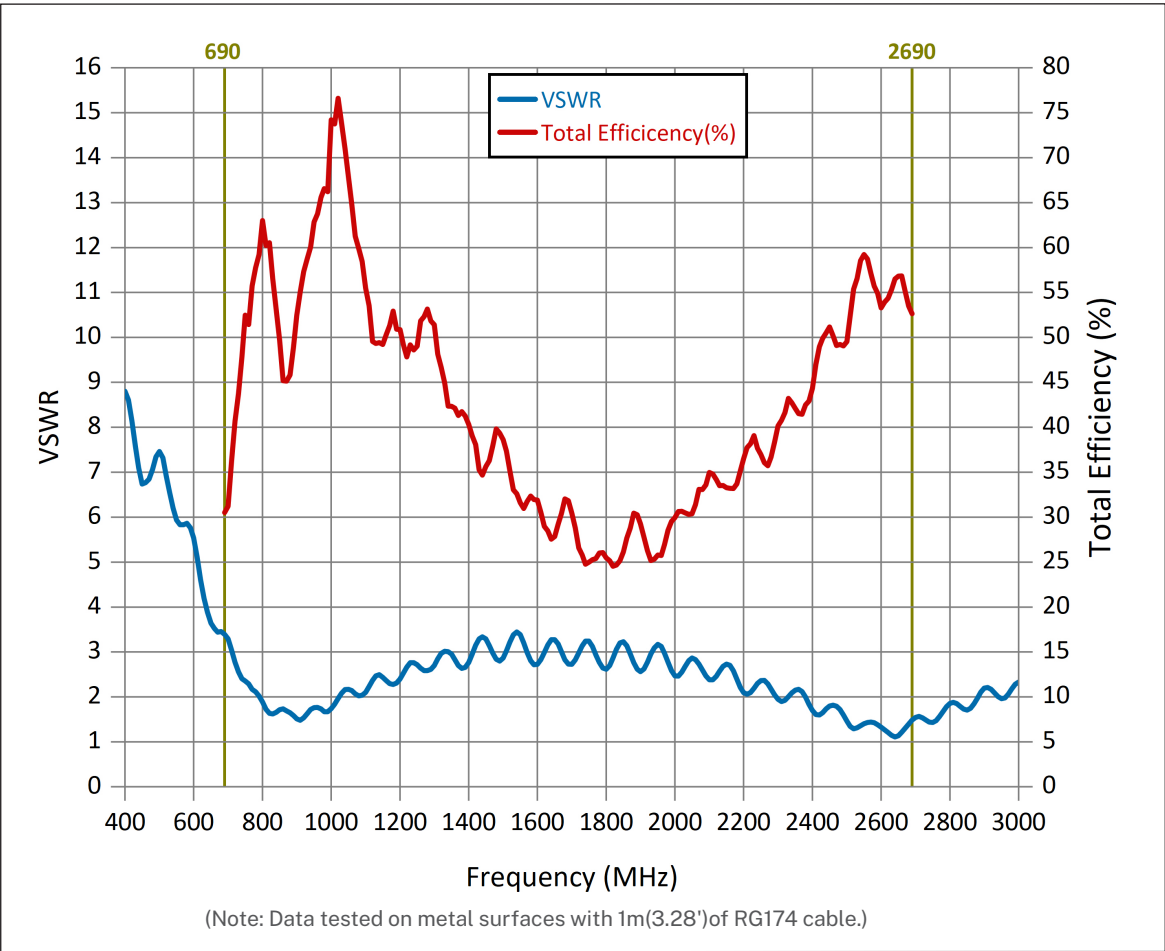


ELECTRICAL PERFORMANCE

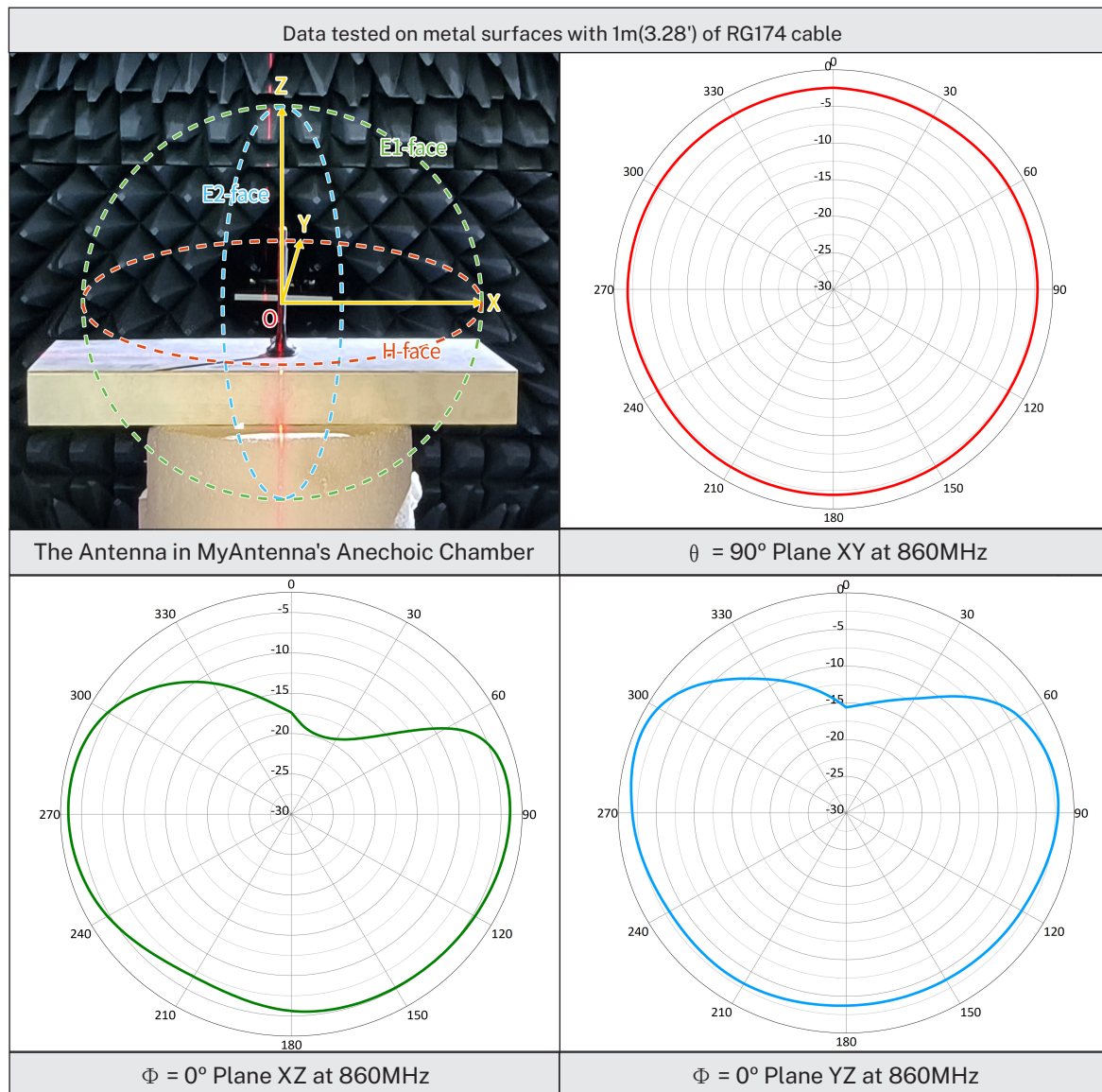
© **Note**

All data displayed in "ELECTRICAL PERFORMANCE" were measured on metal surfaces with a RG174 1-meter-long coaxial cable.

VSWR and Total Efficiency (%)

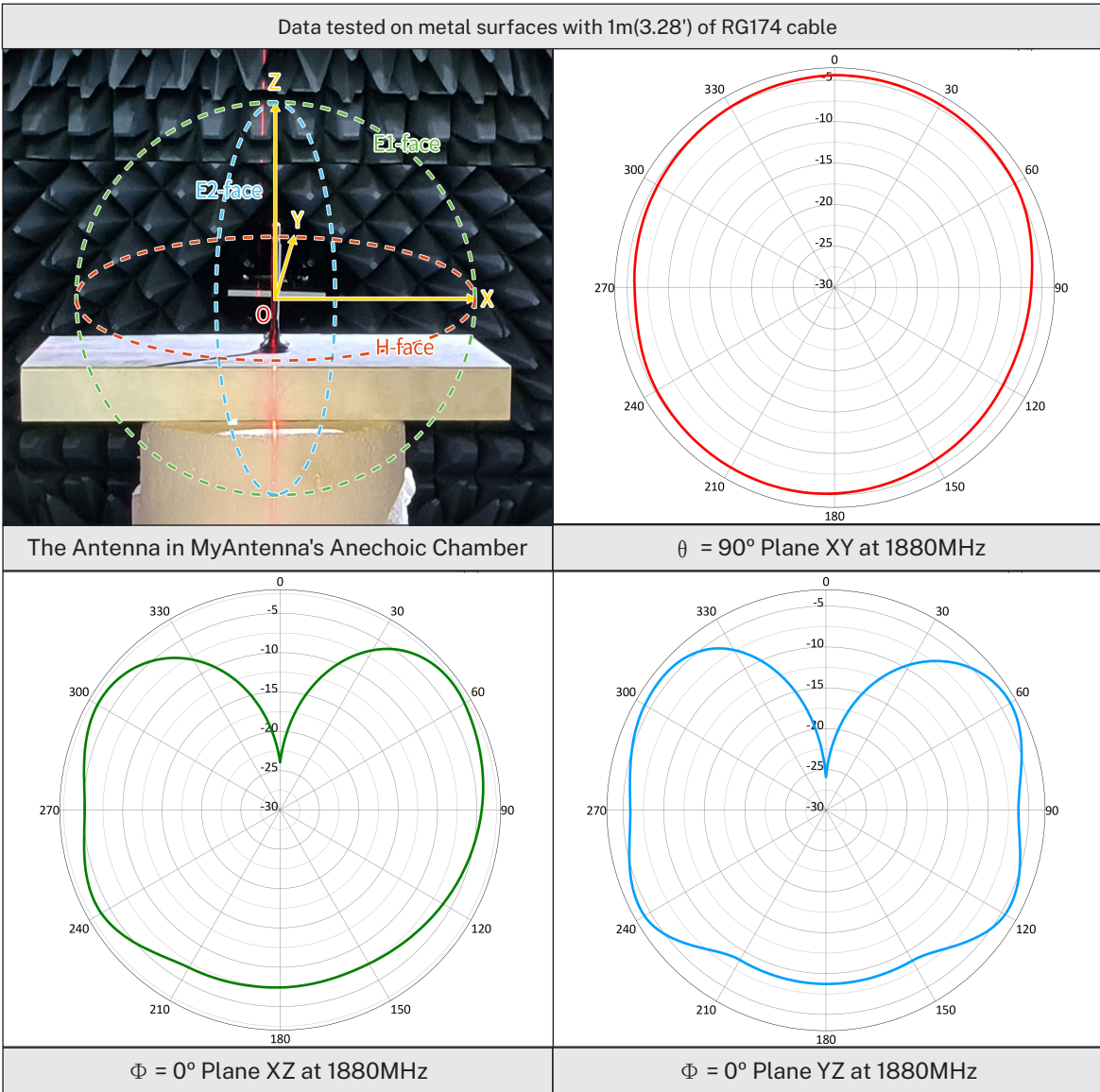


Radiation Patterns (698-960 MHz), Efficiency (%) and Gain (dBi)



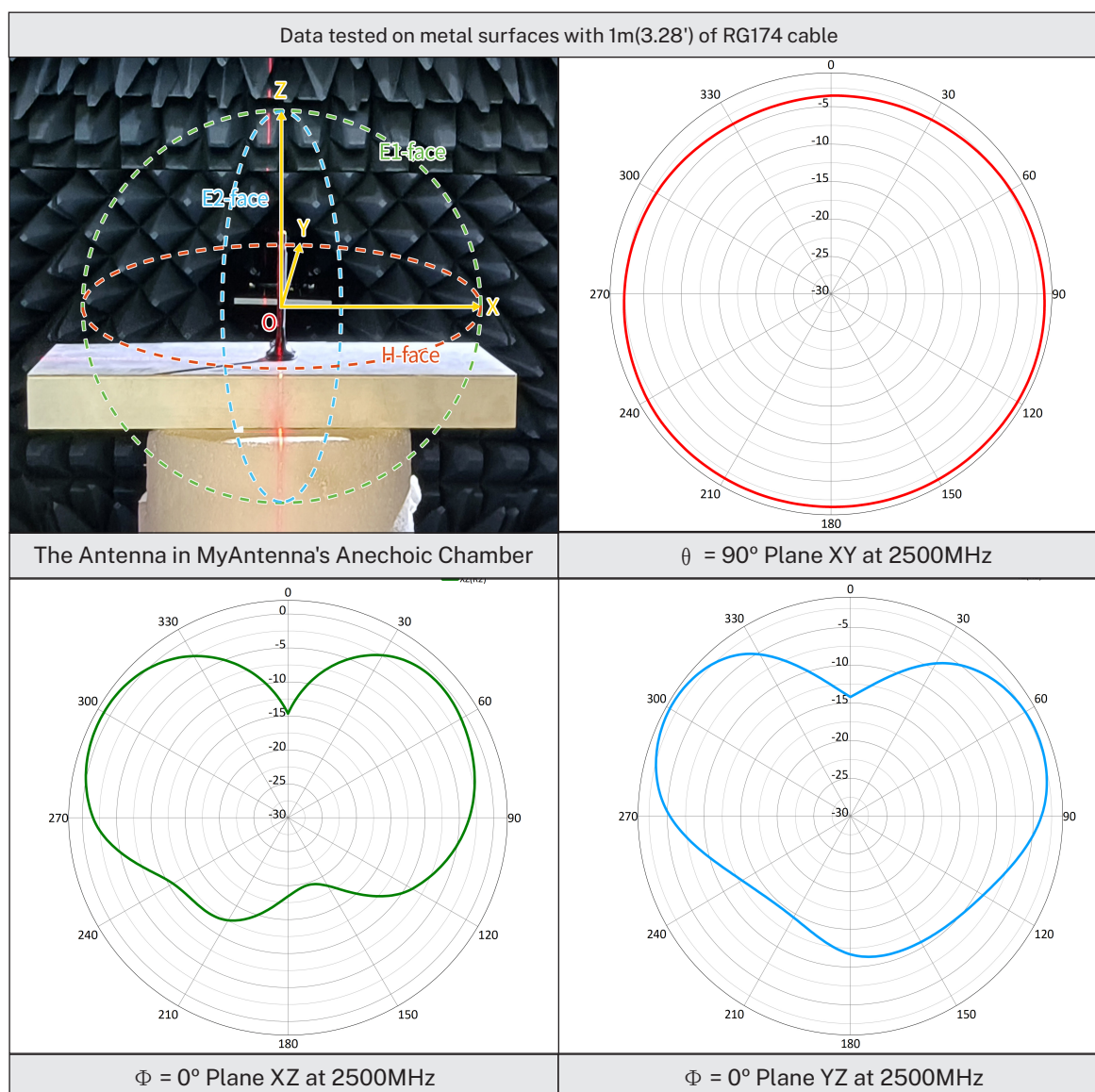
Gain	Peak Gain	1.19 dBi
	Average Gain across the band	-0.33 dBi
	Gain Range across the band (min, max)	-3.0 to 1.19 dBi
Efficiency	Peak Efficiency	63.75%
	Average Efficiency across the band	51.61%
	Efficiency Range across the band (min, max)	30.53 to 63.75%

Radiation Patterns (1427-2170 MHz), Efficiency (%) and Gain (dBi)



Gain	Peak Gain	0.09 dBi
	Average Gain across the band	-2.44 dBi
	Gain Range across the band (min, max)	-4.35 to 0.09 dBi
Efficiency	Peak Efficiency	39.83%
	Average Efficiency across the band	30.50%
	Efficiency Range across the band (min, max)	24.54 to 39.83%

Radiation Patterns (2300-2690 MHz), Efficiency (%) and Gain (dBi)



Gain	Peak Gain	2.25 dBi
	Average Gain across the band	1.01 dBi
	Gain Range across the band (min, max)	-0.59 to 2.25 dBi
Efficiency	Peak Efficiency	59.21%
	Average Efficiency across the band	50.37%
	Efficiency Range across the band (min, max)	40.16 to 59.21%