

2G/3G/GSM Flexible Printed Circuit Antenna



AFAG7020-S824



70.0 x 20.0mm
RoHS/RoHS II Compliant
 MSL - N/A

FEATURES

- GSM 850, GSM 900, DCS 1800, PCS 1900
- Low profile
- Omni-directional pattern
- Cable and connector for easy installation
- High gain of 3.5 dBi

APPLICATIONS

- Cellular connectivity
- M2M
- IoT
- IoT gateways
- Wearables
- Video
- Surveillance
- Digital signage

Electrical Specifications

Parameters	Min.	Typ.	Max.	Units	Note
Frequency		824-894 MHz 880-960 MHz 1710-1880 MHz 1850-1990 MHz 1710-2690 MHz		MHz	GSM 850 GSM 900 GSM 1800 PCS 1900 UMTS+LTE
VSWR			3.0:1		
Polarization	Linear				
Azimuth	Omnidirectional				
Impedance		50		Ω	
Gain		2.0		dBic	GSM 850 GSM 900 GSM 1800
		3.5		dBic	PCS 1900 UMTS+LTE
Efficiency		50		%	GSM 850 GSM 900 GSM 1800
		65		%	PCS 1900 UMTS+LTE
Operating Temperature	-40		+85	°C	
Storage Temperature	-40		+85	°C	
Input Power			10	W	
Installation Method		Surface-pasting			

NOTE:

Don't paste on the surface of metal.

Frequency change with different material and thickness of the shell.



5101 Hidden Creek Ln Spicewood TX 78669
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REVISED: 08.10.2018

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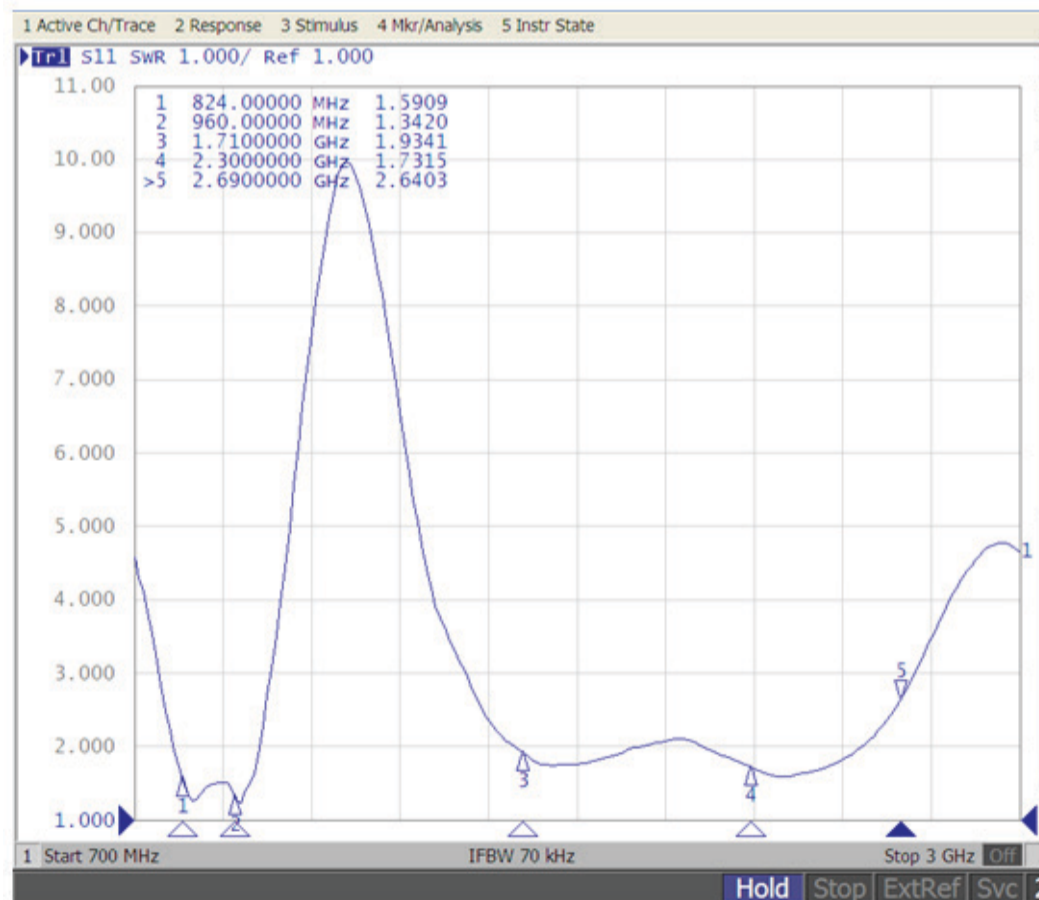


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Environmental Characteristics

Parameters	Note
ROHS	ROHS Compliant
MSL	Not Applicable
Static Sensitivity	NON ESD sensitive
Handling	No special handling conditions

VSWR Characteristics



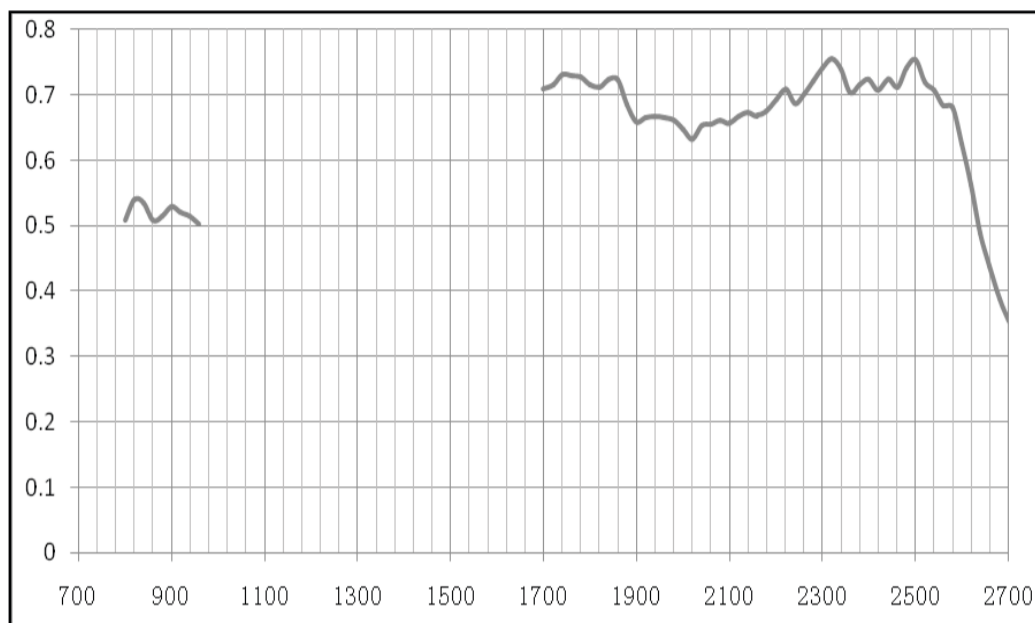


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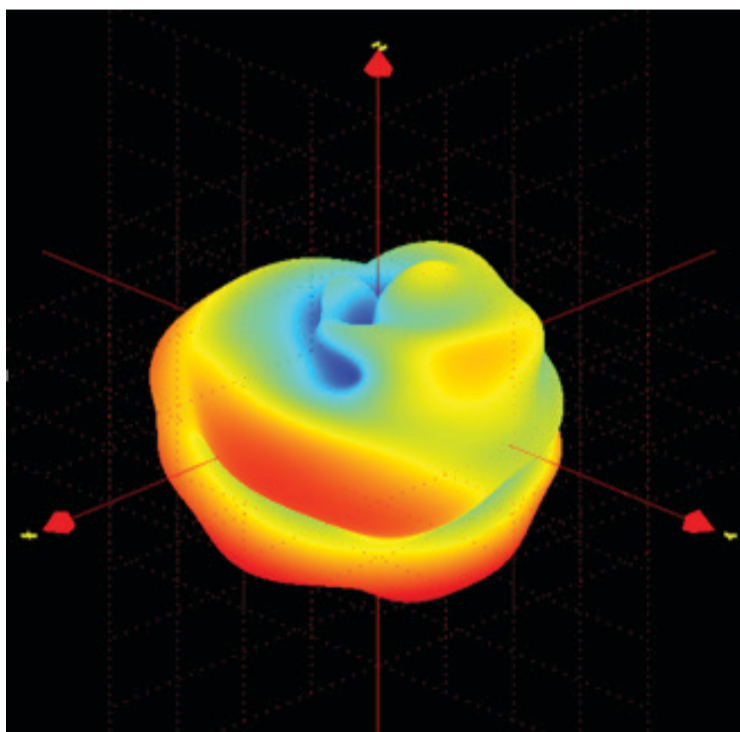
Efficiency



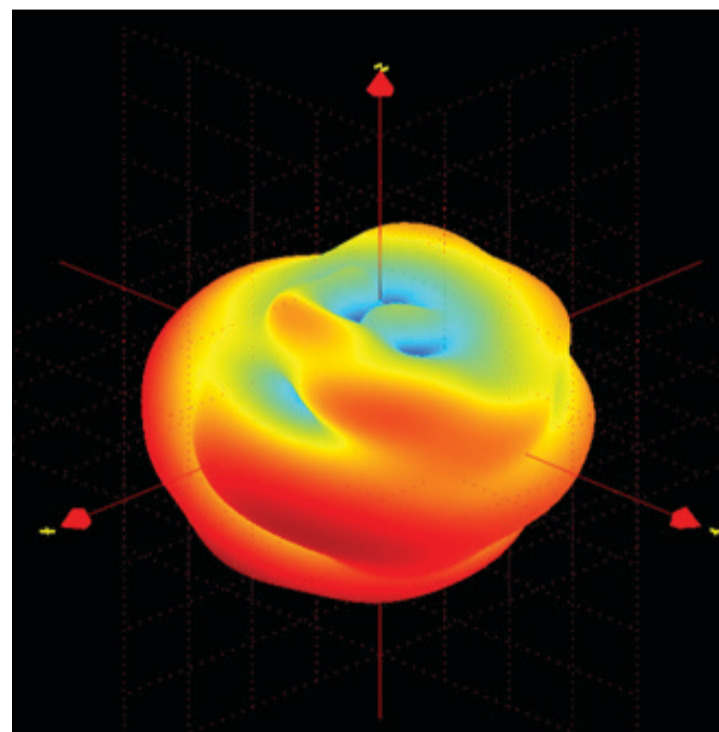
Radiation Patterns

Antenna 3D Patterns

824 MHz



960 MHz





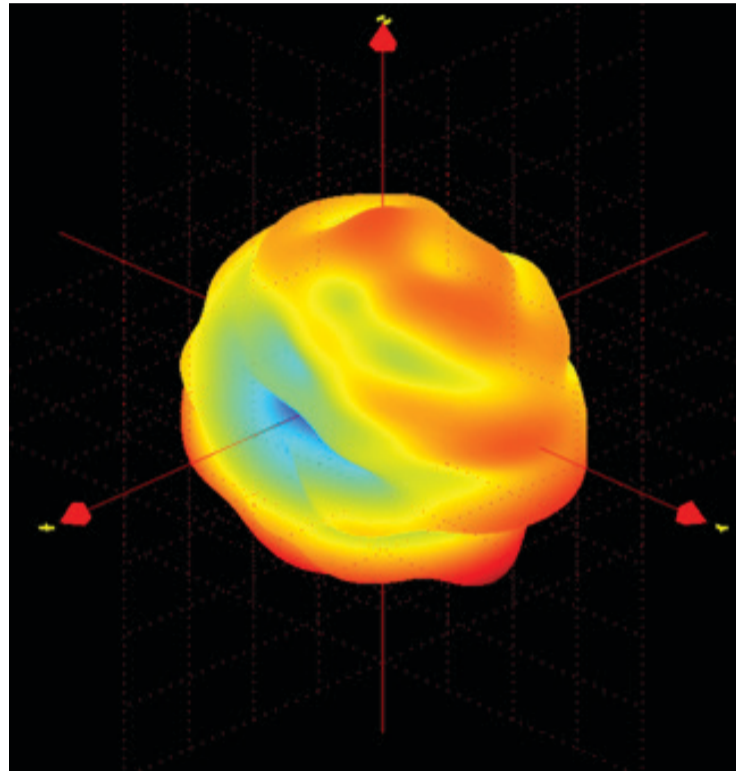
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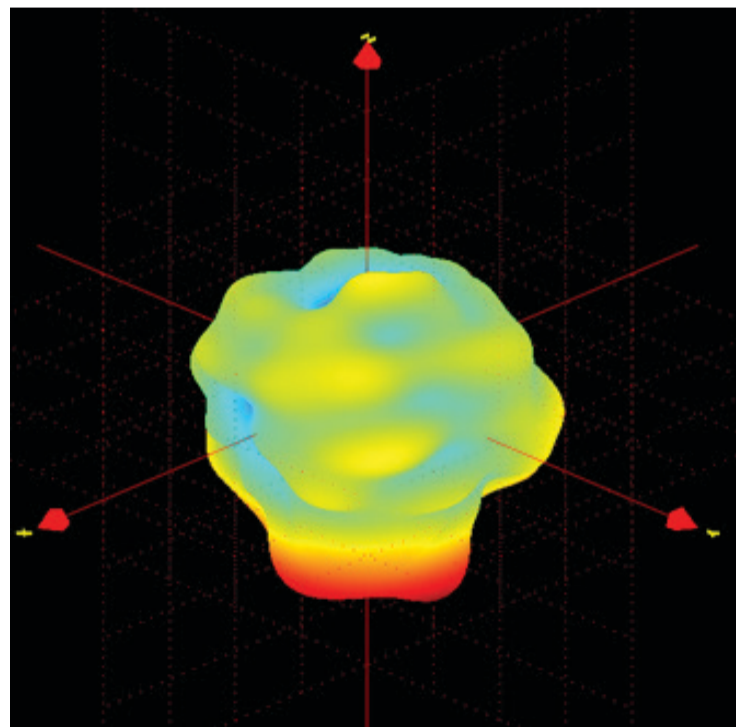
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Radiation Patterns

1710 MHz



2690 MHz



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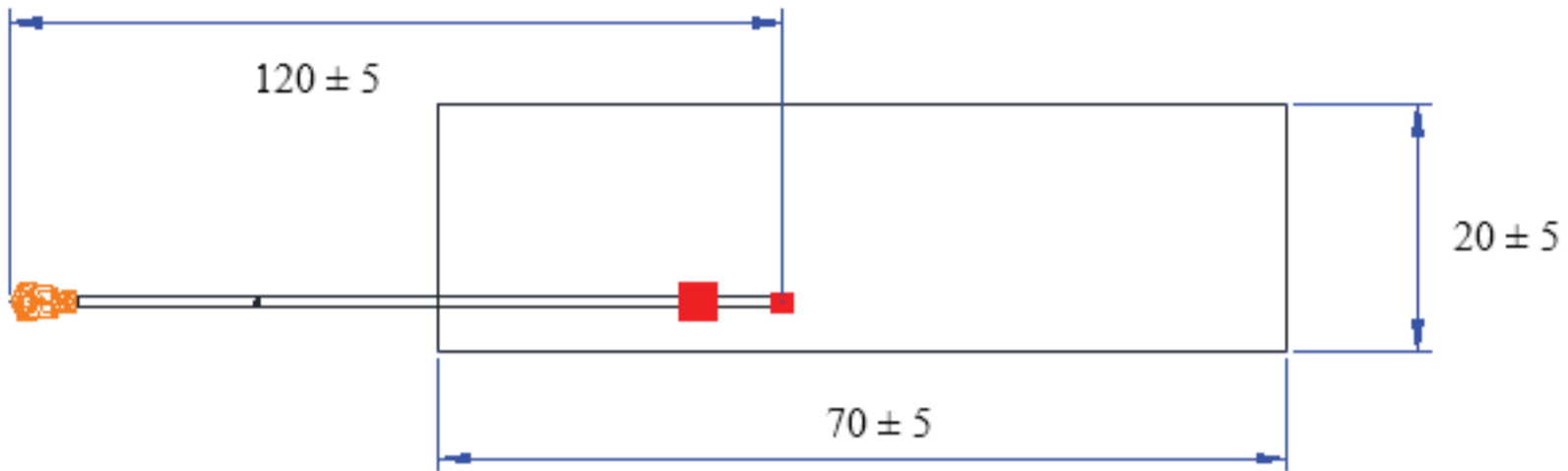


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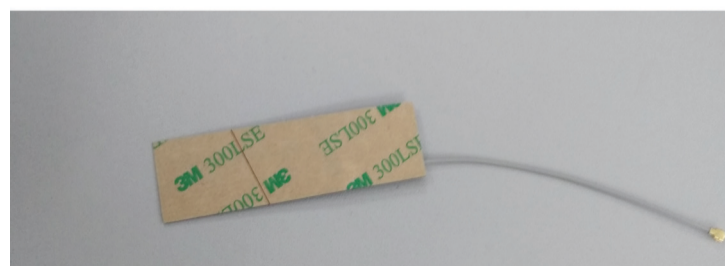
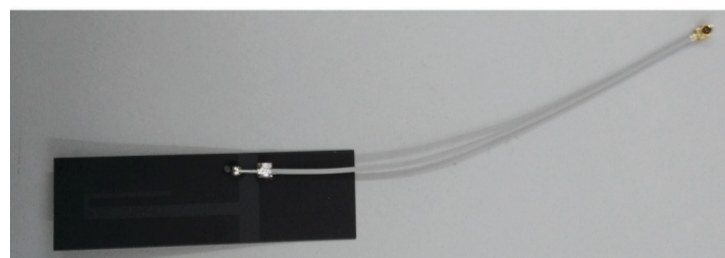
Dimensions



Description	Spec
Antenna Dimension	70 x 20 mm
Cable Length	120.0 mm
Material	FPC
RF Cable	$\Phi 1.13$ mm, L=120±10mm
RF Connector	IPEX
Mounting Type	Adhesive Tape (3M-467MP)

Unit: mm

Product Image



Packaging

Each carton contains 500 pieces of antenna; the size of each carton is 500*260*250 mm



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