

AFC8513U4G

Request Samples



Check Inventory (>)



85 x 13.8 x 0.2 mm **RoHS/RoHS II Compliant** MSL Level = 1

Features

- Wide Band
- Cellular 5G/4G/LTE/2G/3G/GSM
- Dual-band Wi-Fi 2.4/5GHz
- GNSS GPS/GLONASS/BeiDou/QZSS/COMPASS
- Compact design
- Peak Gain of 5dBi
- Linear Polarization
- High Efficiency (>60% across all bands)
- Easy installation using adhesive tape
- Fully customizable cable and connector options for RF connection

Applications

- IoT
- M2M
- Wearables
- Set Top Boxes
- Transportation
- Home Automation
- Smart Metering/City

Product Image





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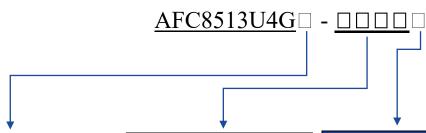


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Part Number Builder



Color		
Code	Description	
S (Standard)	Black	
A	White	

Cable length in 'mm'		
Cable length supported : Ø1.13 mm (50 mm to 500 mm)		
Code Description		
0100	100 mm	
(Standard)	100 11111	
Other Examples:		
0050	50 mm	
0200	200 mm	

Cable Type & Connector Type			
Code	Cable Type	Connector Type	
S (Standard)		IPEX-1 (F)	
A		IPEX-4 (F)	
В		MMCX (F)	
С		MMCX (M)	
D	Ø1.13 mm	MCX (F)	
E		MCX (M)	
F		SMA (F)	
G		SMA (M)	
Н		RP-SMA (F)	
I		RP-SMA (M)	
J		SMB (F)	
K		SMB (M)	
L		FAKRA-D (F)	

Example Configurations:

Part Number	Color	Cable length	Cable Type / Connector Type
AFC8513U4GS- <u>0100</u> S	Black	0100 mm	Ø1.13 mm with IPEX-1 (F) (Standard)
AFC8513U4GA- <u>0050</u> A	White	0050 mm	Ø1.13 mm with IPEX-4 (F)

Note:

- For the standard part number (AFC8513U4GS-0100S), please refer to the packaging at the end of the document.
- For custom configurations (AFC8513U4G \square - $\square\square\square\square$), MOQs, pricing and packaging changes may be applicable.



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Electrical Specification

Parameter	Specification			Unit
T arameter	Min	Тур	Max	Unit
Operating Frequency	698		4000	MHz
VSWR			3	
Peak gain		5		dBi
Impedance		50		Ω
Polarization		Linear		
Input Power			5	W

Mechanical Specification

Parameter	Specification	
Antenna Dimensions	85 x 13.8 x 0.2 mm	
Antenna Type	Flexible Printed Circuit	
Mounting Type	Adhesive	
RF Connector	I-PEX 1 (F)	
RF Cable Type	Ø1.13 mm	
Cable Length	100 mm	

Environmental Specification

Parameter	Specification	
Operating Temperature	-40°C to +85°C	
ROHS Complaint	Yes	
PB Free	Yes	
ESD Sensitive	No	
MSL Level	1	
Vibration	10 to 55Hz with 1.5mm amplitude 2hours	



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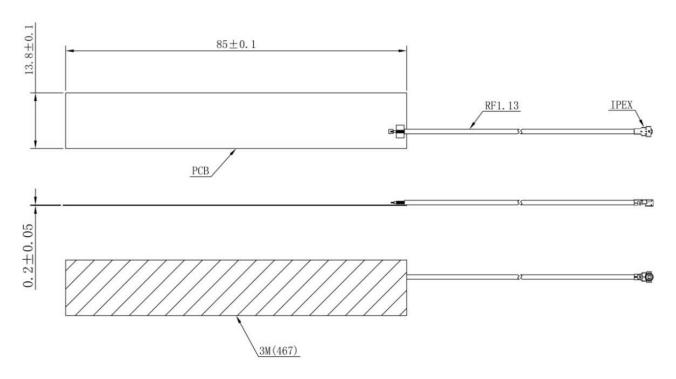


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Product Dimension



Unit: mm



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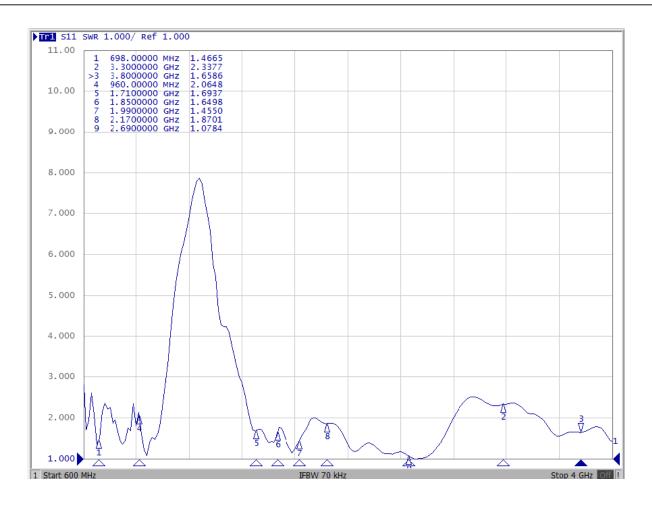


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Test Measurement - VSWR





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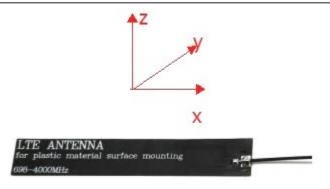


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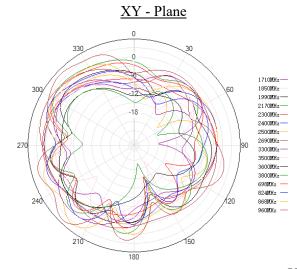


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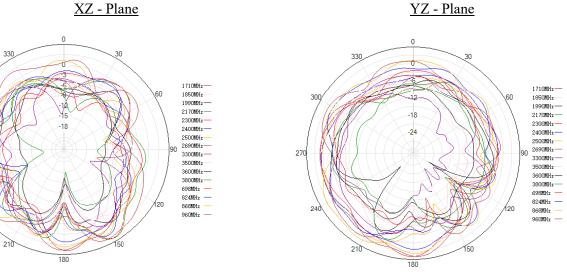
Radiation Characteristics



2D Pattern



XZ - Plane





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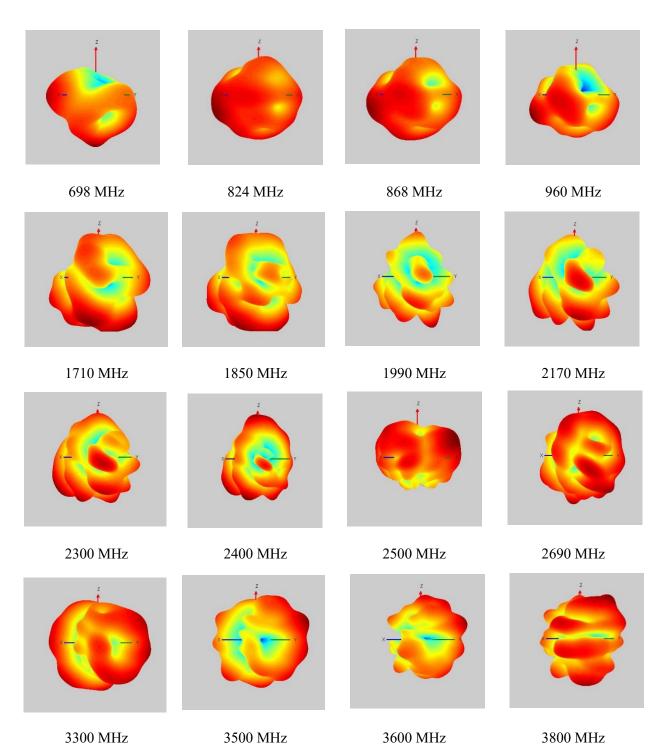


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3D Pattern





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Gain and Efficiency

Frequency (MHz)	Efficiency	Gain (dBi)
698	0.65	4.82
824	0.61	2.28
960	0.63	4.77
1710	0.67	5.1
1990	0.61	2.38
2170	0.62	2.47
2690	0.66	5.2
3300	0.63	2.8
3800	0.60	0.69

Packaging Information

Number of Antenna/ Carton: 1000 pcs

Dimension of the Carton: 370 x 360 x 170 mm

Weight of the Carton: 4 kg

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