



# LTE Customized Antenna



Part Number: L-2FA7

139.5 x 19 x 2 mm  
RoHS/RoHS II Compliant

## Test Target

Parameters	Description
Equipment	#1
Band	B2/B4/B5/B12/B13/B66
Category	Free space coupling test

## Mechanical Characteristics

Parameters	Description
Connector	IPEX
Cable Type	RF1.13
Mounting	Embedded
FPC Dimensions	139.5 x 19.0 x 2.0 mm

## Environmental Characteristics

Parameters	Note
Operating Temperature	-40°C to +85°C
Vibration	10 to 55Hz with 1.5mm amplitude 2 hours
ROHS Compliant	Yes
MSL Level	1



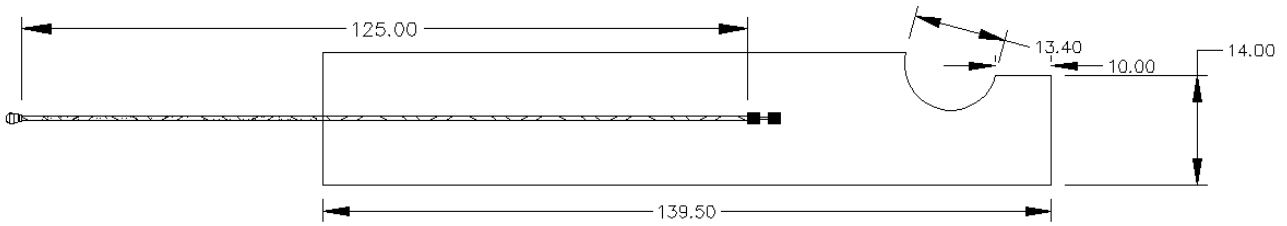
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## Dimensions



## Product Image





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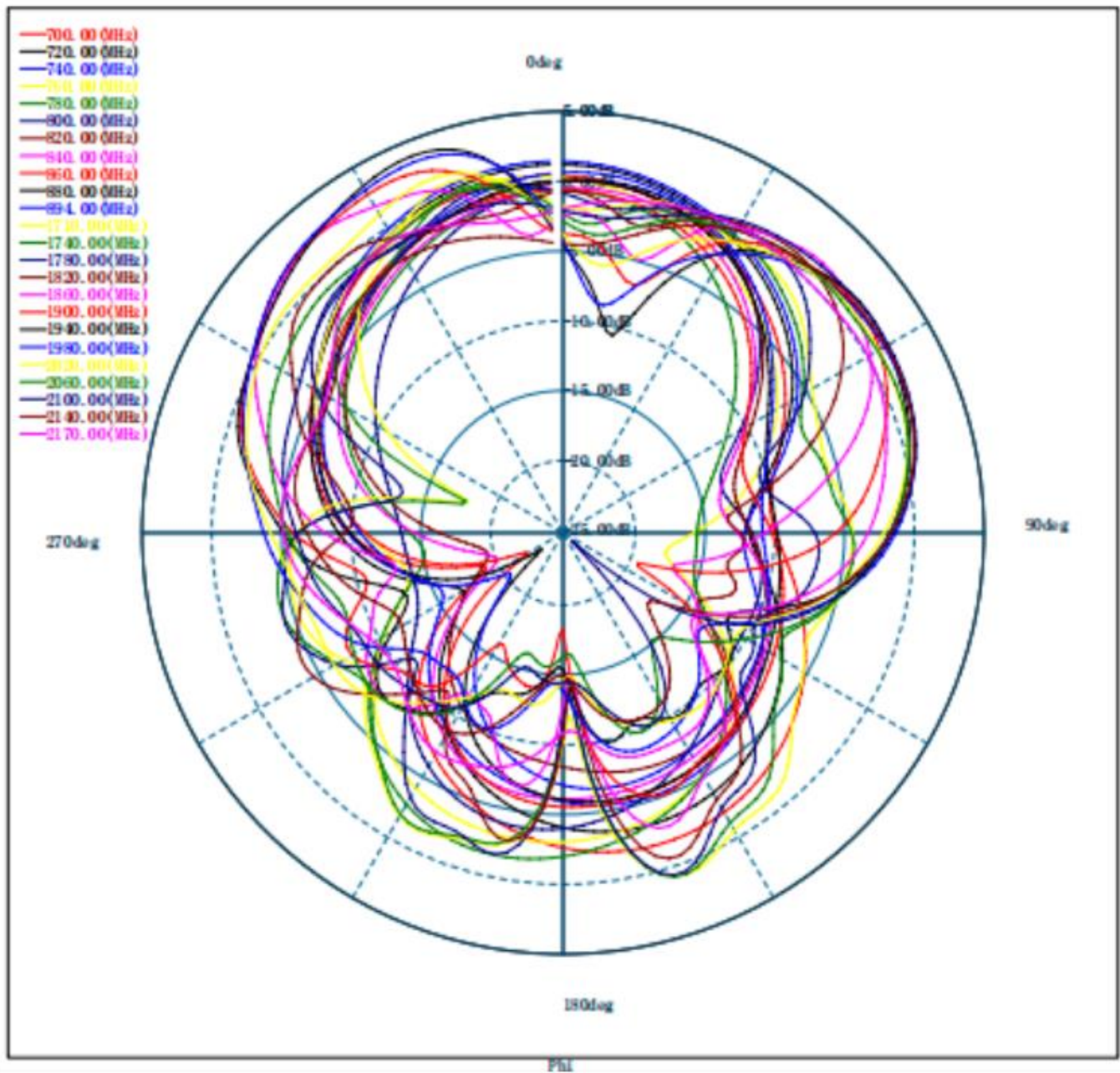
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## Radiation Patterns

2D – Pattern

H





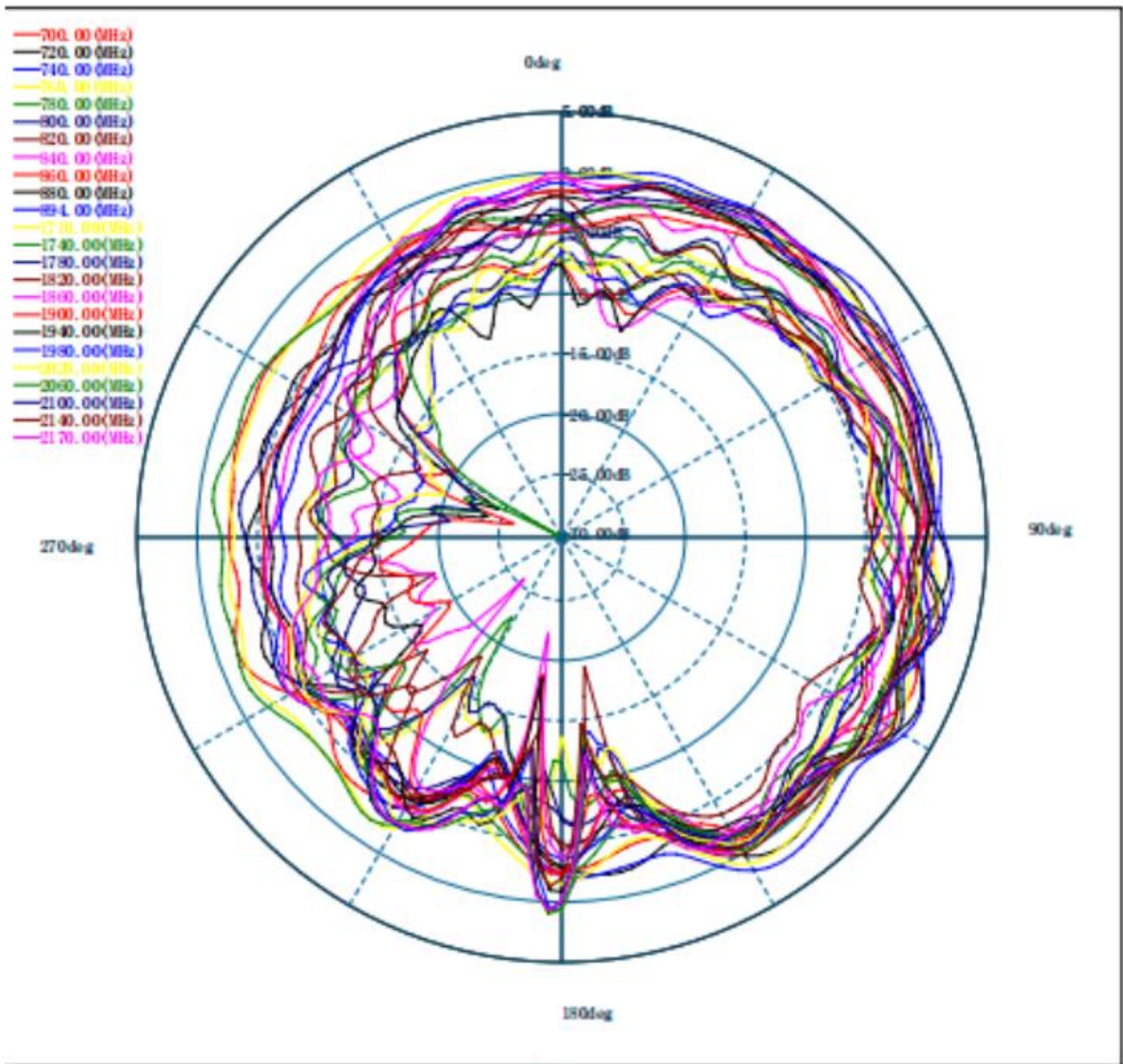
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E1





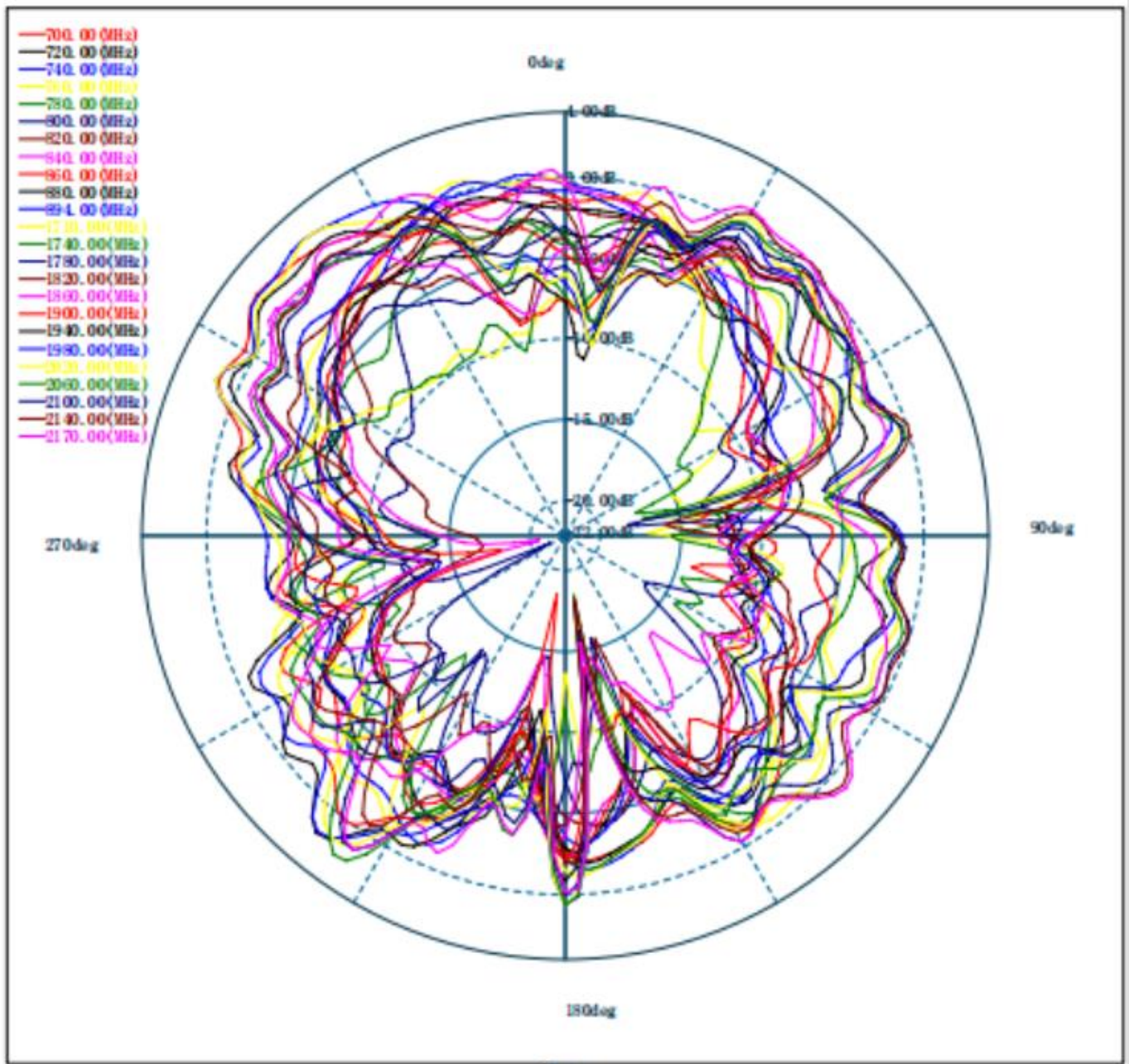
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E2





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## Antenna Parameters (Passive)

### Test Efficiency and Gain

Frequency (MHz)	Efficiency	Gain (dBi)
700	0.44	1.58
720	0.48	2.57
740	0.47	2.82
780	0.44	1.70
800	0.42	1.37
820	0.35	2.45
840	0.39	1.79
860	0.41	1.07
880	0.39	0.54
894	0.38	0.78
1710	0.41	1.45
1740	0.48	2.67
1780	0.45	2.72
1820	0.45	3.33
1860	0.48	2.51
1900	0.57	3.24
1940	0.54	3.65
1980	0.57	4.36
2020	0.53	4.01
2060	0.57	3.07
2100	0.55	2.91
2140	0.50	2.61
2170	0.50	1.96



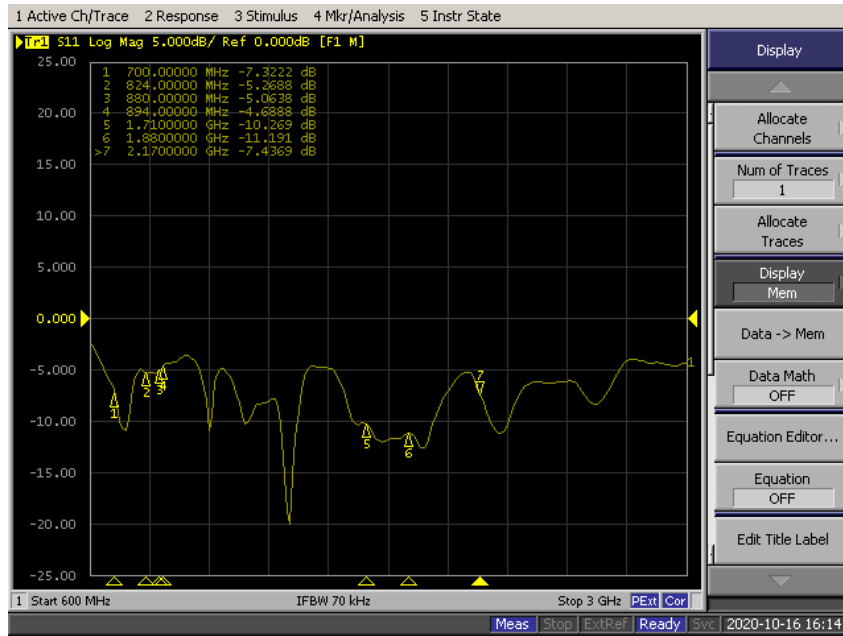
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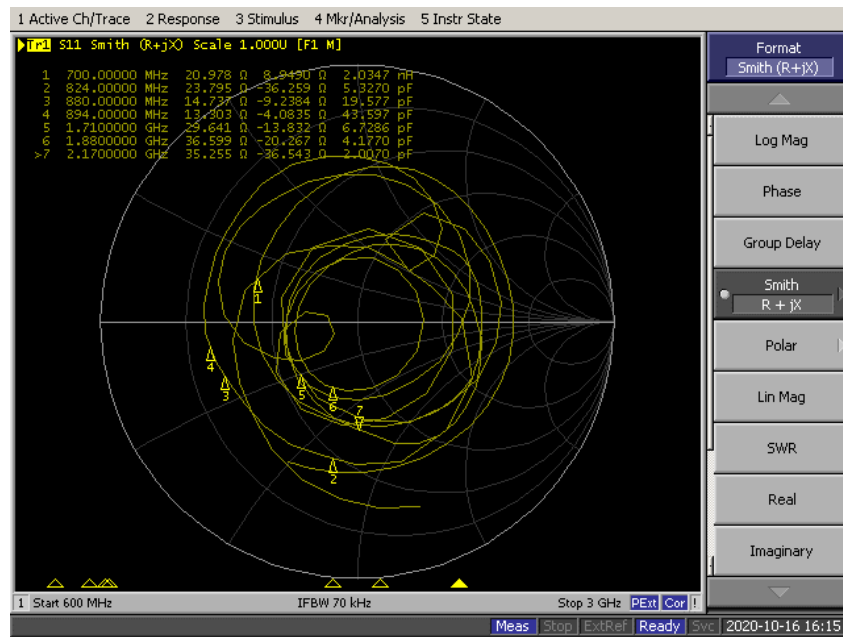
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## Return loss



## Smith





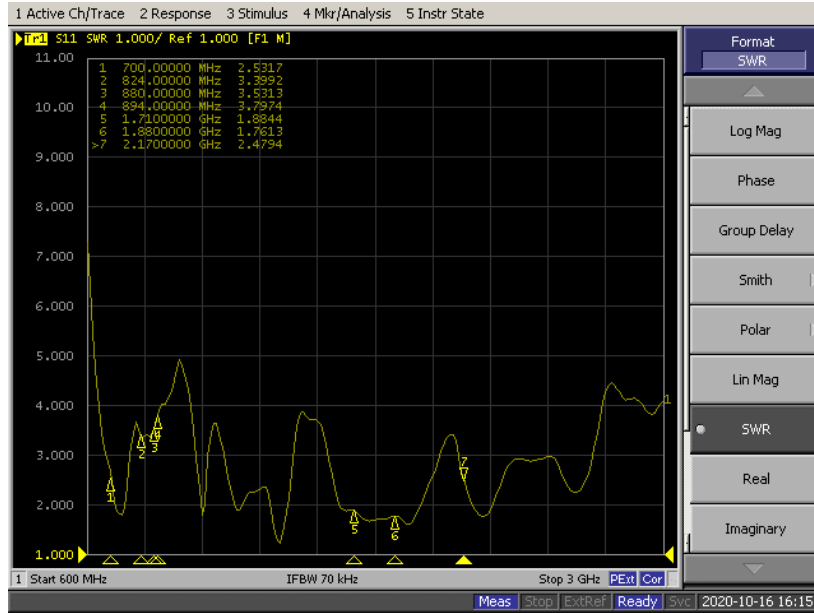
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## VSWR



### Antenna Parameters (Active)

Channel	TRP	TRP	TIS
B2	L	20.05	
	M	20.26	
	H	20.31	-99.15
B4	L	20.47	
	M	20.04	
	H	20.13	-98.85
B5	L	19.53	
	M	19.60	
	H	19.78	-93.31
B12	L	19.15	
	M	19.58	
	H	19.25	-96.84
B13	L	19.10	
	M	18.79	
	H	19.06	-94.27
B66	L	20.85	
	M	20.44	
	H	20.16	-97.45





MiotWireless

Miot Wireless Solutions Ltd  
<http://www.miotsolutions.com>  
[Info@miotsolutions.com](mailto:Info@miotsolutions.com)

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### **Packaging**

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**TBD**

### **Caution:**

- (1) Do not apply excess mechanical stress to the component body or terminations. Do not attempt to re-form or bend the components as this will cause damage to the component.
- (2) Do not expose the component to open flame.
- (3) This specification applies to the functionality of the component as a single unit. Please ensure the component is thoroughly evaluated in the application circuit.