

# "High Frequency Ceramic Solutions"

5GHz EIA 0603 Low Profile Band Pass Filter

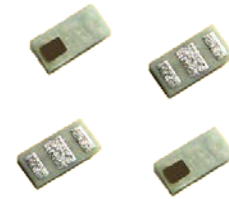
P/N 5550BP14A0800

Detail Specification: 5/10/2017

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## General Specifications

<b>Part Number</b>	5550BP14A0800	<b>Frequency Range</b>	5150 - 5950 MHz
<b>Insertion Loss</b>	0.7 typ. @25°C	<b>Return Loss</b>	9.5 dB min.
	0.9 max. @-40C~ 85°C	<b>Power Capacity</b>	1W max. (CW)
<b>Attenuation (min.)</b>	35min. @ 700-2690MHz	<b>Reel Quantity</b>	4,000
<b>Attenuation (min.)</b>	30min. @ 3400-3800MHz	<b>Operating Temp.</b>	-40 ~ +85°C
<b>Attenuation (min.)</b>	12min. @ 7250-7800MHz	<b>Storage Temp.</b>	-40 ~ +85°C
<b>Attenuation (min.)</b>	20min. @10300-11700MHz	<b>Storage Period</b>	18 months max.

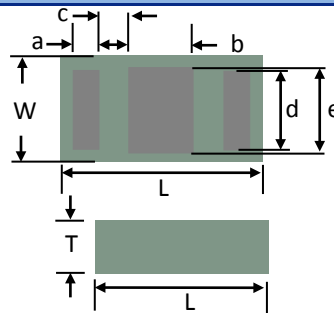


## Part Number Explanation

<b>P/N Suffix</b>	<b>Packing Style</b>	Bulk	Suffix = S	eg. 5550BP14A0800S
		T & R	Suffix = T	eg. 5550BP14A0800T
	<b>Termination style</b>	100% Tin	Suffix = None	eg. 5550BP14A0800 (T or S)
	<b>Evaluation Board</b>	2 Female SMA connectors		5550BP14A0800-EB1SMA

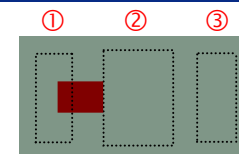
## Mechanical Dimensions

	In	mm
<b>L</b>	0.063 ± 0.006	1.60 ± 0.15
<b>W</b>	0.031 ± 0.006	0.80 ± 0.15
<b>T</b>	0.024 max.	0.6max.
<b>a</b>	0.010 ± 0.004	0.25 ± 0.10
<b>b</b>	0.016 ± 0.004	0.40 ± 0.10
<b>c</b>	0.009 ± 0.002	0.23 ± 0.05
<b>d</b>	0.022 ± 0.004	0.55 ± 0.10
<b>e</b>	0.024 ± 0.004	0.60 ± 0.10

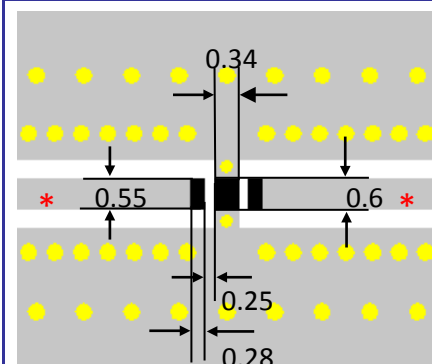


## Terminal Configuration

No.	Function
1	I/O
2	GND
3	I/O



## Mounting Considerations



- Solder Resist
- Land
- Through-hole (φ 0.3, 0.23)

Always mount this device with maroon mark facing up otherwise, improper operation can be expected.

\* Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.

Want the layout file or need us to revise your layout to make sure is correct? Send us a message at:

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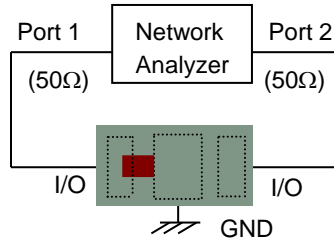
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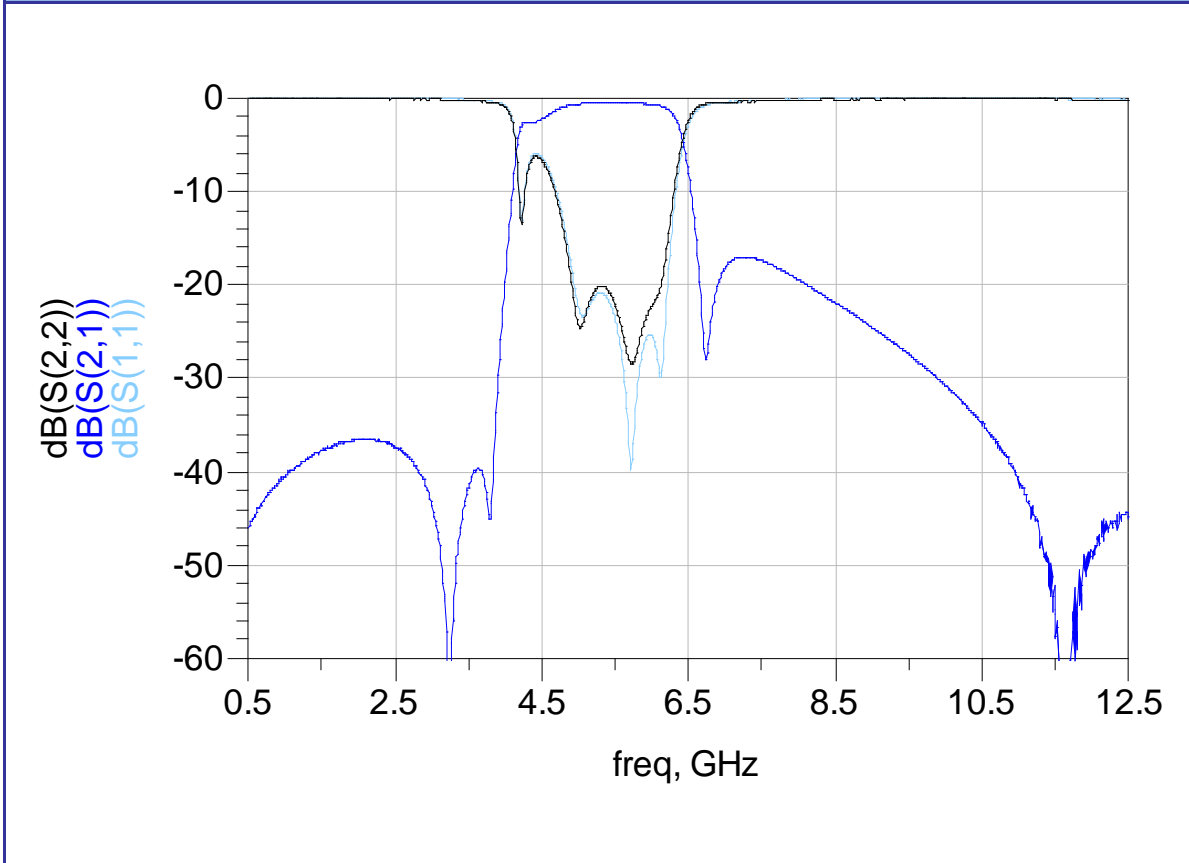
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## Measuring Diagram



## Typical Electrical Performance (T=25°C)



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## Soldering Information

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