

# High Frequency Ceramic Solutions

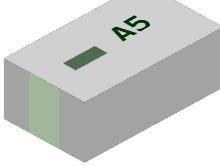
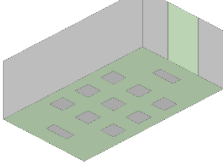
**5925 - 7125 MHz High Rejection Band Pass Filter for WiFi6, WiFi6E, WiFi7, 802.11ax, 802.11be**

**P/N: 6525BP46A1200001E**

Detail Specification: 1/3/2023

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## General Specifications

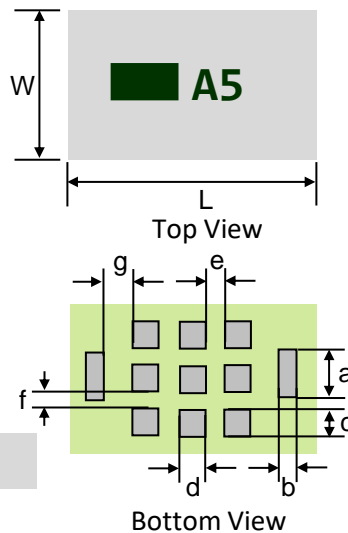
<b>Part Number</b>	6525BP46A1200001E			 <p>Top</p>	 <p>Bottom</p>
<b>Operating Frequency (MHz)</b>	5925 - 5945	5945 - 5955	5955 - 7125		
<b>Insertion Loss (dB)</b>	4.5 typ. (4.8 max.)	3.4 typ. (4.0 max.)	3.0 typ. (3.6 max.)	<b>Power Capacity (W)</b> 3 max. (CW)	<b>Operating Temp. (°C)</b> -40 to +85
<b>Insertion Loss Ripple (dB)</b>	1.2 typ. (2.0 max.)	0.4 typ. (2.2 max.)	2.2 typ. (2.5 max.)		
<b>Return Loss (dB)</b>	12 typ. (10 min.)				
<b>Attenuation (dB)</b>	52 typ. (50 min.) @500 - 5640MHz			<b>Recommended Storage Conditions and Period for Unused Product on T&amp;R</b> +5 to +35°C Humidity 45 - 75% RH 18 months max.	<b>Reel Qty. (pcs./reel)</b> 1,000
	42 typ. (40 min.) @5640 - 5835MHz				
	34 typ. (30 min.) @11850 - 14250MHz				
	42 typ. (10 min.) @17775MHz				
	24 typ. (20 min.) @21375MHz				

## Part Number Explanation

<b>P/N Suffix</b>	<b>Packing Style</b>	Bulk (loose pcs.)	Suffix = B	E.g. 6525BP46A1200001B
		T & R (7" Reel Embossed Tape)	Suffix = E	E.g. 6525BP46A1200001E
	<b>Evaluation Board</b>	Non-Conductive Bags	Suffix = C	E.g. 6525BP46A1200001CE1
		Assembled PCB 1 (50Ω SMA)	Suffix = E1	

## Mechanical Dimensions

	in	mm
<b>L</b>	0.217 ± 0.008	5.50 ± 0.20
<b>W</b>	0.126 ± 0.008	3.20 ± 0.20
<b>T</b>	0.087 max	2.20 max
<b>a</b>	0.031 ± 0.008	0.80 ± 0.20
<b>b</b>	0.012 ± 0.008	0.30 ± 0.20
<b>c</b>	0.020 ± 0.008	0.50 ± 0.20
<b>d</b>	0.020 ± 0.008	0.50 ± 0.20
<b>e</b>	0.020 ± 0.008	0.50 ± 0.20
<b>f</b>	0.020 ± 0.008	0.50 ± 0.20
<b>g</b>	0.028 ± 0.008	0.70 ± 0.20
<b>h</b>	0.047 ± 0.008	1.20 ± 0.20



## Terminal Configuration

No.	Function
1	INPUT / OUTPUT
2	OUTPUT / INPUT
3	GND



"A5" marking is there for the purpose of differentiating it from other SMT components with similar appearance and aid in troubleshooting.

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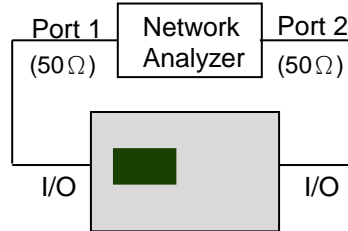
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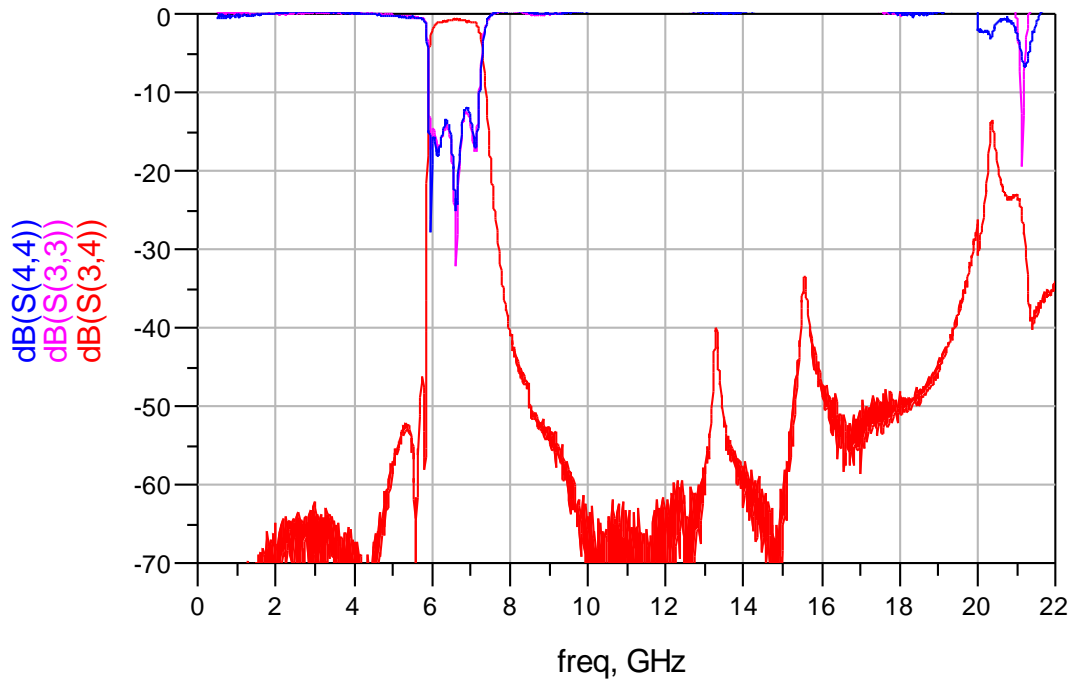
## Measuring Diagram



Port 1: Filter IN/OUT  
Port 2: Filter IN/OUT

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

### Insertion Loss and Return Loss



Do you need the S-parameter file of the above? Send us a message at:

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**For more Band Pass Filters and to Download Measured S-parameters, go to:**

<https://www.johansontechnology.com/band-pass-filters>

**Packaging Information**

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**Soldering Information**

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