

High Frequency Ceramic Solutions

**5150 - 5835 MHz High Rejection Band Pass Filter for
WiFi6, WiFi6E, WiFi7, 802.11ax, 802.11be**

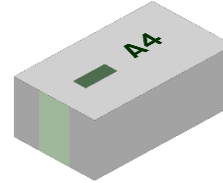
P/N: 5492BP46A0685001E

Detail Specification: 1/3/2023

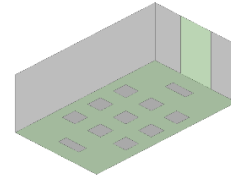
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General Specifications

Part Number	5492BP46A0685001E	
Operating Frequency (MHz)	5150 - 5785	5785 - 5835
Insertion Loss (dB)	2.9 typ. (3.5 max.)	4.2 typ. (4.5 max.)
Ripple (dB)	1.4 typ. (2.0 max.)	1.4 typ. (2.0 max.)
Return Loss (dB)	13 typ. (10 min.)	
Attenuation (dB)	60 typ. (50 min.) @0 - 2500MHz	
	48 typ. (40 min.) @2500 - 4000MHz	
	43 typ. (40 min.) @5925 - 5990MHz	
	54 typ. (50 min.) @6090 - 7125MHz	
	62 typ. (50 min.) @7125 - 7740MHz	
	55 typ. (45 min.) @10300 - 11670MHz	
	45 typ. (33 min.) @15450 - 17505MHz	



Top



Bottom

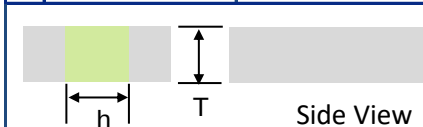
Power Capacity (W)	3 max. (CW)
Operating Temp. (°C)	-40 to +85
Recommended Storage Conditions and Period for Unused Product on T&R	+5 to +35°C Humidity 45 - 75% RH 18 months max.
Reel Qty. (pcs./reel)	1,000

Part Number Explanation

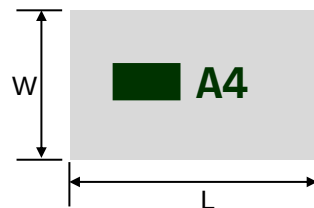
P/N Suffix	Packing Style	Bulk (loose pcs.)	Suffix = B	E.g. 5492BP46A0685001B
		T & R (7" Reel Embossed Tape)	Suffix = E	E.g. 5492BP46A0685001E
	Evaluation Board	Non-Conductive Bags	Suffix = C	E.g. 5492BP46A0685001CE1
		Assembled PCB 1 (50Ω SMA)	Suffix = E1	

Mechanical Dimensions

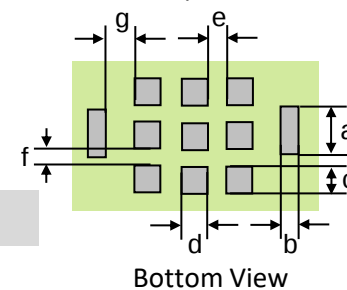
	in	mm
L	0.217 ± 0.008	5.50 ± 0.20
W	0.126 ± 0.008	3.20 ± 0.20
T	0.087 max	2.20 max
a	0.031 ± 0.008	0.80 ± 0.20
b	0.012 ± 0.008	0.30 ± 0.20
c	0.020 ± 0.008	0.50 ± 0.20
d	0.020 ± 0.008	0.50 ± 0.20
e	0.020 ± 0.008	0.50 ± 0.20
f	0.020 ± 0.008	0.50 ± 0.20
g	0.028 ± 0.008	0.70 ± 0.20
h	0.047 ± 0.008	1.20 ±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



Side View



Top View



Bottom View

Terminal Configuration

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



"A4" marking is there for the purpose of differentiating it from other SMT components with similar appearance and aid in troubleshooting.

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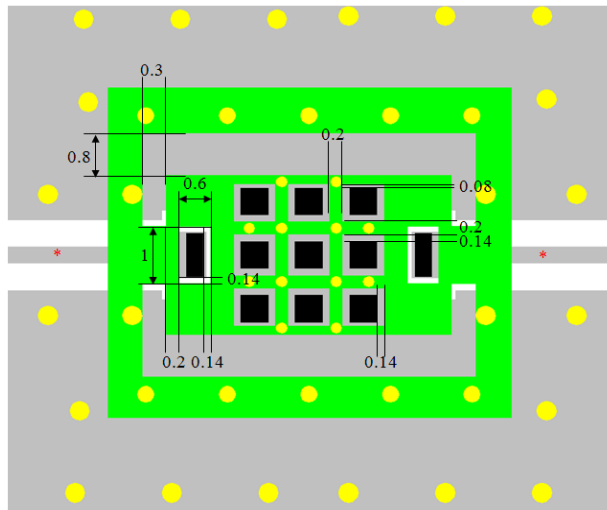
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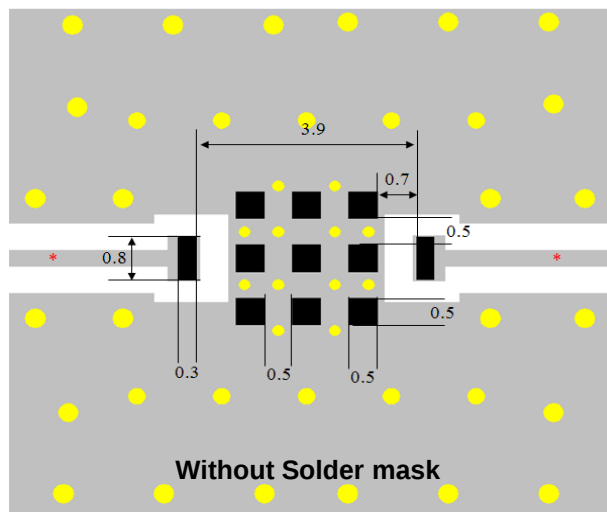
Mounting Considerations

Mount device with colored mark facing up.



Units: mm

-  Top metal
-  Land
-  Through-hole ($\phi 0.2/\phi 0.35$)
-  Solder mask



-  Top metal
-  Land
-  Through-hole ($\phi 0.2/\phi 0.35$)

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

For reference design package and PCB CAD files, please contact us at:
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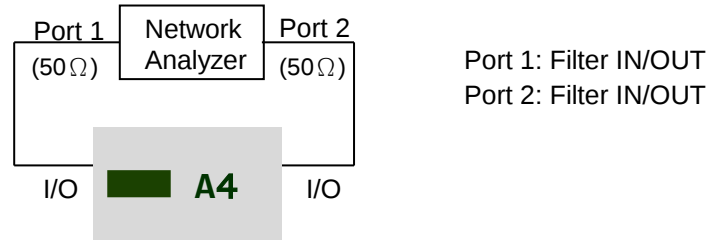
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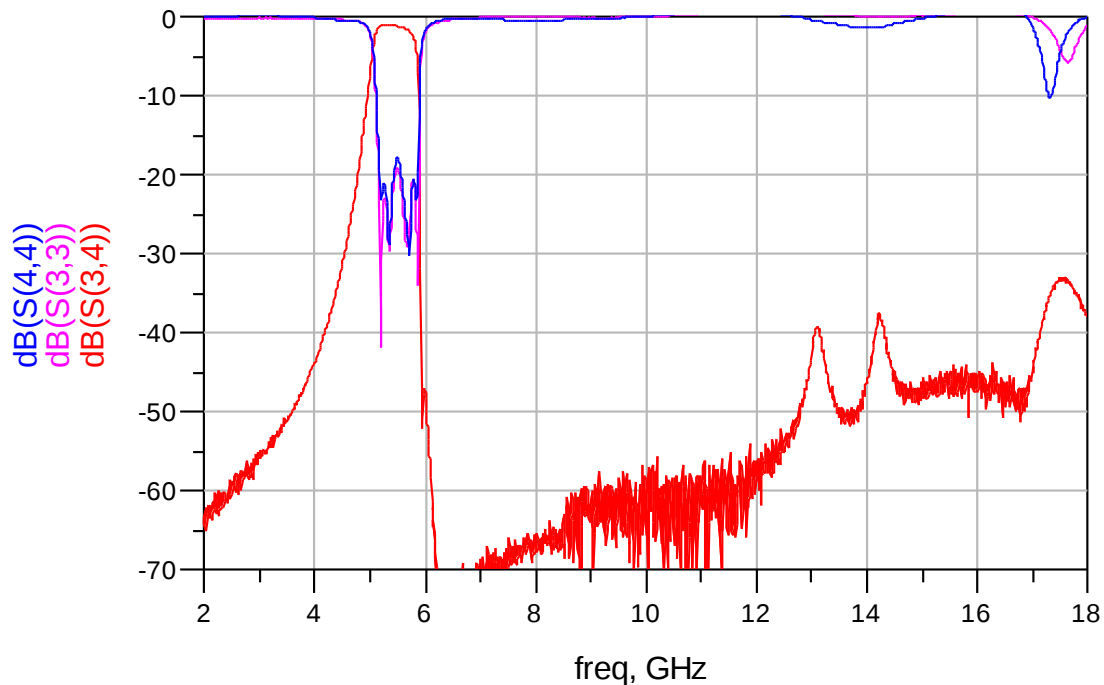
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Measuring Diagram



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

<https://www.johansontechnology.com/tape-reel-packaging>

Soldering Information

<https://www.johansontechnology.com/ipcsoldering-profile>

MSL Info

<https://www.johansontechnology.com/msl-rating>

Recommended Storage Condition and Max Shelf Life

<https://www.johansontechnology.com/recommended-storage-conditions>

RoHS Compliance

<https://www.johansontechnology.com/rohs-compliance>

Layout Optimization Review Services (Free)

<https://www.johansontechnology.com/ask-a-question>

Antenna Layout Review, Tuning, and Characterization Services

<https://www.johansontechnology.com/ipc-antenna-services>

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