

# High Frequency Ceramic Solutions

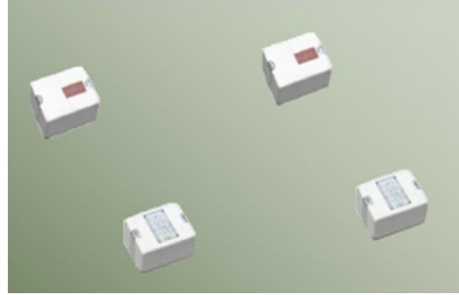
1.98GHz High Rejection Band Pass Filter. Best for FDD and TDD LTE band applications. P/N 1988BP41A0600

Detail Specification: 1/8/2019

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## General Specifications

<b>Part Number</b>	1988BP41A0600		
<b>Frequency (MHz)</b>	1680 ~ 2295		
<b>Insertion Loss (dB)</b>	2.0 max. @ 25°C 2.5 max. @ -40 to +105°C		
<b>Return Loss</b>	12 min.		
<b>Impedance (Ohm)</b>	50		
<b>Group Delay Ripple</b>	2ns max.		
<b>Attenuation (dB)</b>	30 min. @ 0~1400MHz		
<b>Attenuation (dB)</b>	30 min. @ 2620~2705MHz	<b>Ripple (dB)</b>	1.5 max
<b>Attenuation (dB)</b>	40 min. @ 2705~2740MHz	<b>Reel Quantity</b>	2,000
<b>Attenuation (dB)</b>	35 min. @ 2740~3115MHz	<b>Operating Temperature</b>	-40 to +105°C
<b>Attenuation (dB)</b>	40 min. @ 3115~3235MHz	<b>Storage Temperature</b>	-40 to +105°C
<b>Attenuation (dB)</b>	40 min. @ 3235~6590MHz	<b>Storage Period</b>	18 months max.
<b>Attenuation (dB)</b>	15 min. @ 6590~7210MHz	<b>Power Capacity</b>	1W max.(CW)



<b>P/N Suffix</b>	<b>Packing Style</b>	Bulk	Suffix = S	eg. 1988BP41A0600S
		T & R	Suffix = E	eg. 1988BP41A0600E
		Termination	Suffix =S/ E/EB1SMA	100% Tin (Sn)
	<b>Evaluation Board</b>	1988BP41A0600-EB1SMA (2 Female SMA connectors 50Ω)		

## Mechanical Specifications

	In	mm
L	0.126 ± 0.008	3.20 ± 0.20
W	0.098 ± 0.008	2.50 ± 0.20
T	0.059 ± 0.004	1.50 ± 0.10
a	0.012 ± 0.006	0.30 ± 0.15
b	0.024 ± 0.008	0.60 ± 0.20
c	0.047 ± 0.006	1.20 ± 0.15
d	0.028 ± 0.006	0.70 ± 0.15
e	0.079 ± 0.006	2.00 ± 0.15

## Terminal Configuration

No.	Function
1	IN
2	OUT
3	GND

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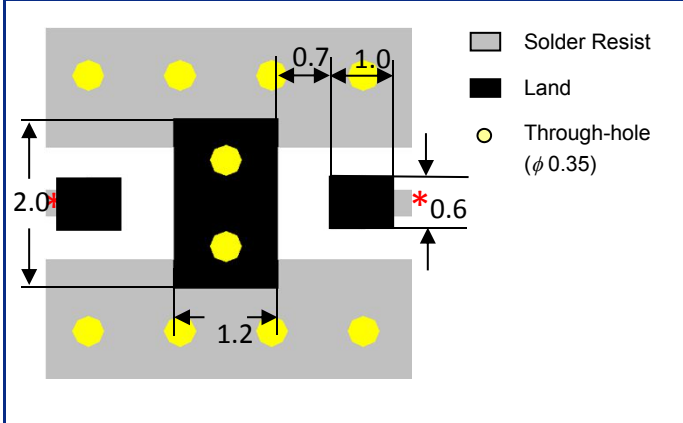
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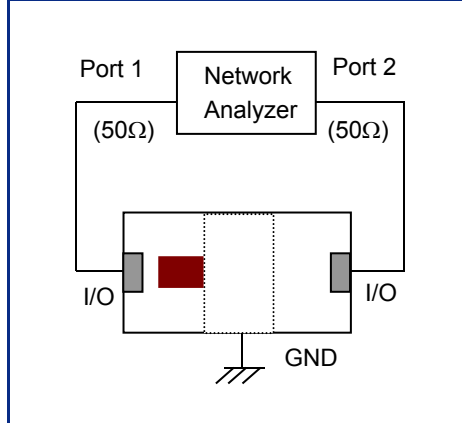
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## Mounting Considerations

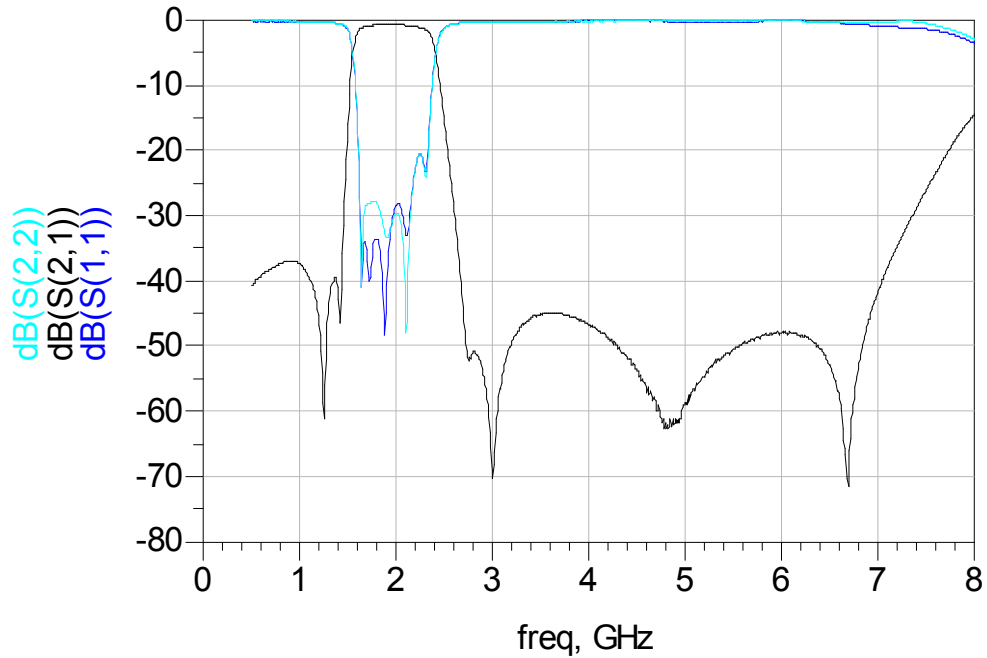


## Measuring Diagram



## Electrical Characteristics (T=25°C)

### Insertion Loss & Return Loss



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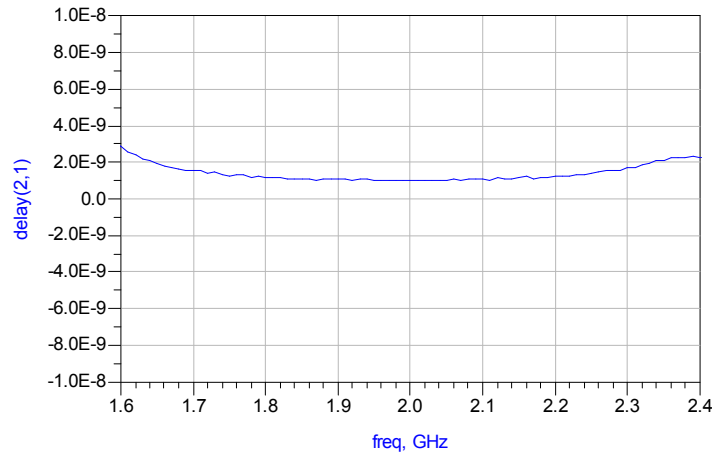
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## Electrical Characteristics (T=25°C)

### Group Delay



## Packaging information

[www.johansontechnology.com/ipcpackaging.html](http://www.johansontechnology.com/ipcpackaging.html)

## Soldering Information

[www.johansontechnology.com/ipcsoldering-profile](http://www.johansontechnology.com/ipcsoldering-profile)

## RoHS Compliance

[www.johansontechnology.com/technical-notes/rohs-compliance.html](http://www.johansontechnology.com/technical-notes/rohs-compliance.html)

[www.johansontechnology.com/technical-notes/msl-rating.html](http://www.johansontechnology.com/technical-notes/msl-rating.html)

## To Download Measured S-parameters for Evaluation and Simulation:

[www.johansontechnology.com/bpf](http://www.johansontechnology.com/bpf)

## For layout review contact our Applications Team at:

[www.johansontechnology.com/component/techquestion?Itemid=407](http://www.johansontechnology.com/component/techquestion?Itemid=407)

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