

"High Frequency Ceramic Solutions"

5.5 GHz Band Pass Filter for WiFi or Automotive Satellite

P/N 5515BP15C1020

Detail Specification: 02/15/2017

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General Specifications

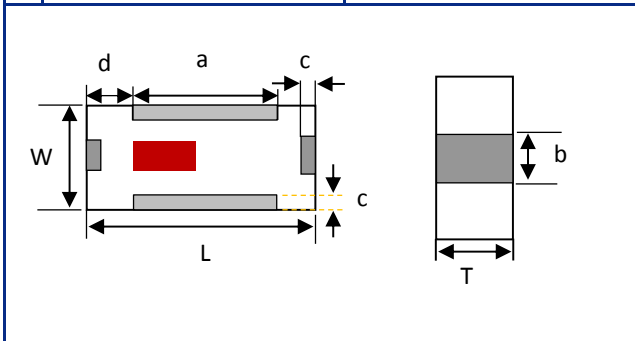
Part Number	5515BP15C1020	Insertion Loss	1.5 dB max.
Frequency (MHz)	4900 - 5920	Input Power	2W max. (CW)
Attenuation (min.)	30 dB @ 3500 MHz	Impedance	50 Ω
Attenuation (min.)	25 dB @ 9800 - 11840 MHz	Operating Temp.	-40 to +85°C
Attenuation (min.)	5 dB @ 14700 - 17760 MHz	Recommended Storage	+5 to +35 C, Hum:45~75%RH
Return Loss	9.5 dB min.	Reel Quantity	4,000

Part Number Explanation

P/N Suffix	Packing Style	Bulk	Suffix = S	eg. 5515BP15C1020S
		T & R	Suffix = T	eg. 5515BP15C1020E
		100% Tin	Suffix = None	eg. 5515BP15C1020(E or S)
	Termination style	Tin / Lead	Suffix = /Pb	eg. 5515BP15C1020S/Pb
	Eval board (50 ohm SMA)			

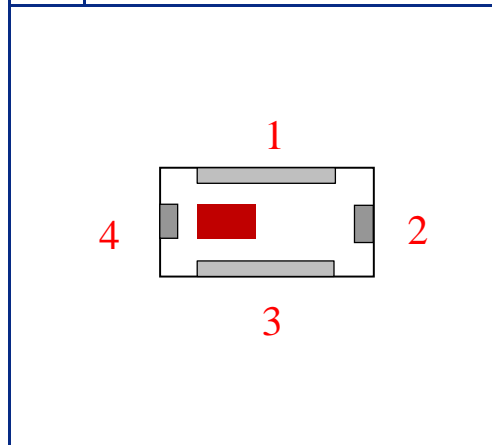
Mechanical Dimensions

	In	mm
L	0.079 ± 0.006	2.00 ± 0.15
W	0.049 ± 0.004	1.25 ± 0.10
T	0.037 ± 0.004	0.95 ± 0.10
a	0.051 ± 0.006	1.30 ± 0.15
b	0.012 ± 0.006	0.30 ± 0.15
c	0.010 + 0.006	0.25 + 0.15
d	0.014 + 0.006	0.35 + 0.15



Terminal Configuration

No.	Function
1	GND
2	IN/OUT
3	GND
4	IN/OUT



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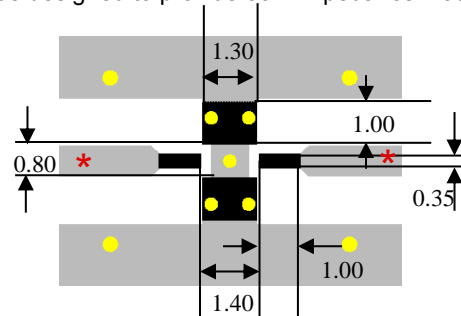
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Mounting Considerations

Mount these devices with brown mark facing up.

* Line width should be designed to provide 50Ω impedance matching characteristics.



Units: mm

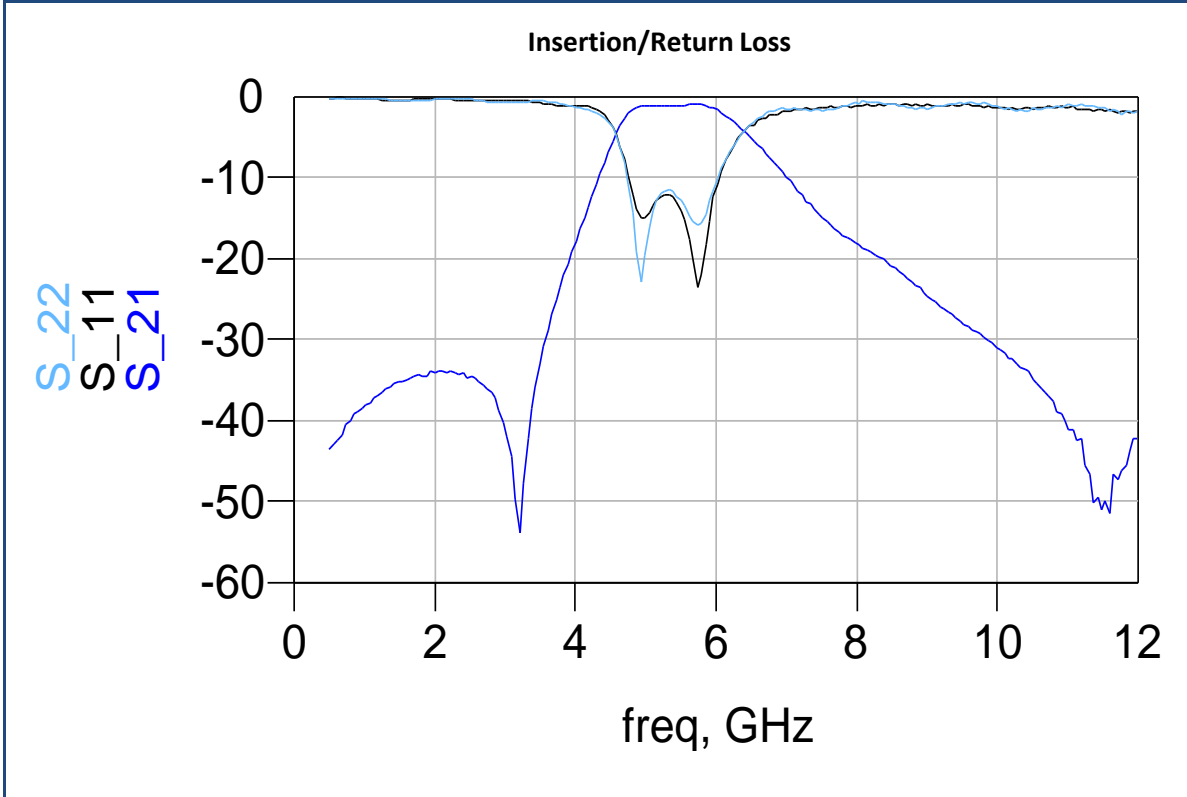
DC Path Internal Connections:

Pins: 1-2-3-4*

*See page 3 for internal layout and recommended DC blocking cap

eg. 5515BP15C1020S/Pb

Typical Electrical Performance (T=25°C)



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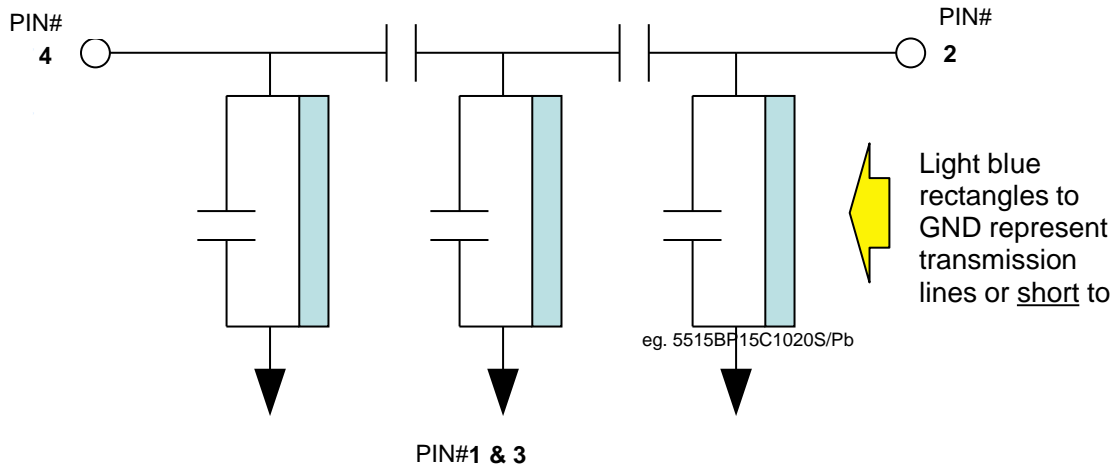
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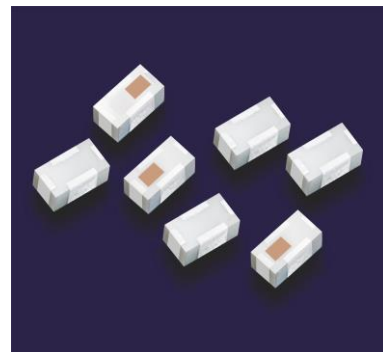
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Internal Representative Layout



Recommended DC blocking cap value for I/O's:
2.7 - 4.7pF



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Application Notes, Layout Files, and more

www.johansontechnology.com/band-pass-filters

Packaging information

www.johansontechnology.com/tape-reel-packaging

Soldering Information

www.johansontechnology.com/ipcsoldering-profile

MSL Info

www.johansontechnology.com/msl-rating

Recommended Storage Condition and Max Shelf Life

www.johansontechnology.com/recommended-storage-conditions

RoHS Compliance

www.johansontechnology.com/technical-notes/rohs-compliance

Antenna layout and tuning techniques

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