



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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"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

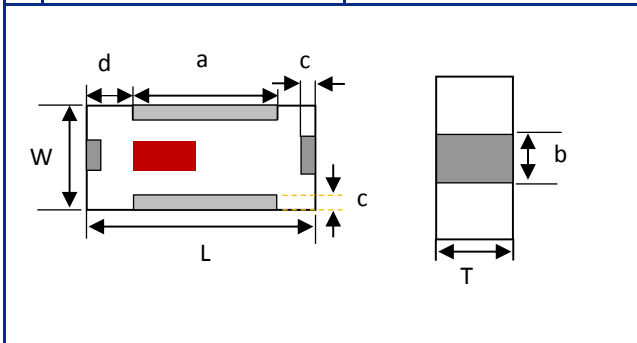
Part Number	5515BP15C1020	Insertion Loss	1.5 dB max.
Frequency (MHz)	4900 - 5920	Input Power	2W max. (CW)
Attenuation (min.)	30 dB @ 3500 MHz	Impedance	50 Ω
Attenuation (min.)	25 dB @ 9800 - 11840 MHz	Operating Temp.	-40 to +85°C
Attenuation (min.)	5 dB @ 14700 - 17760 MHz	Recommended Storage	+5 to +35 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)			

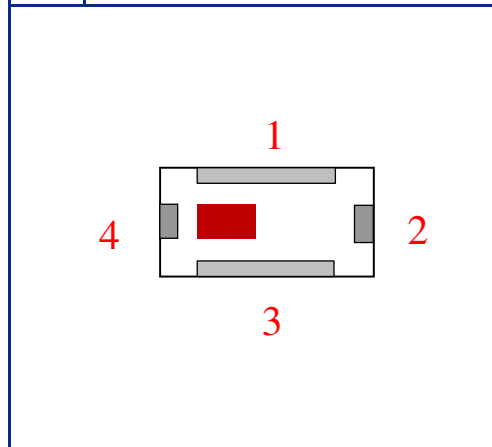
Mechanical Dimensions

	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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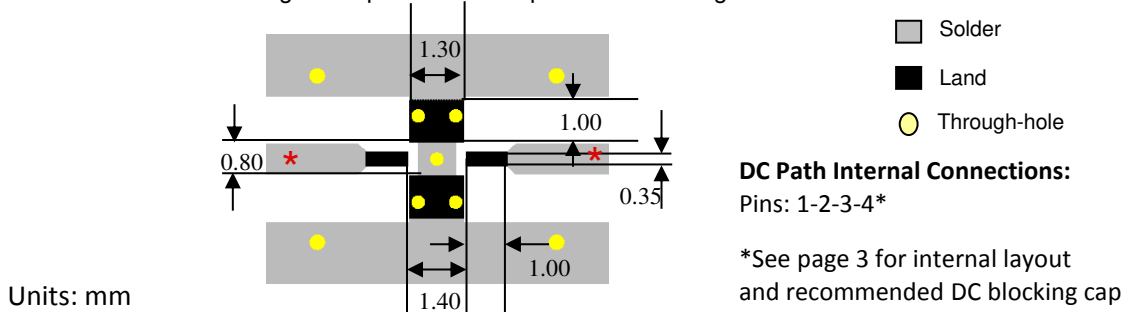
Detail Specification: 02/15/2017

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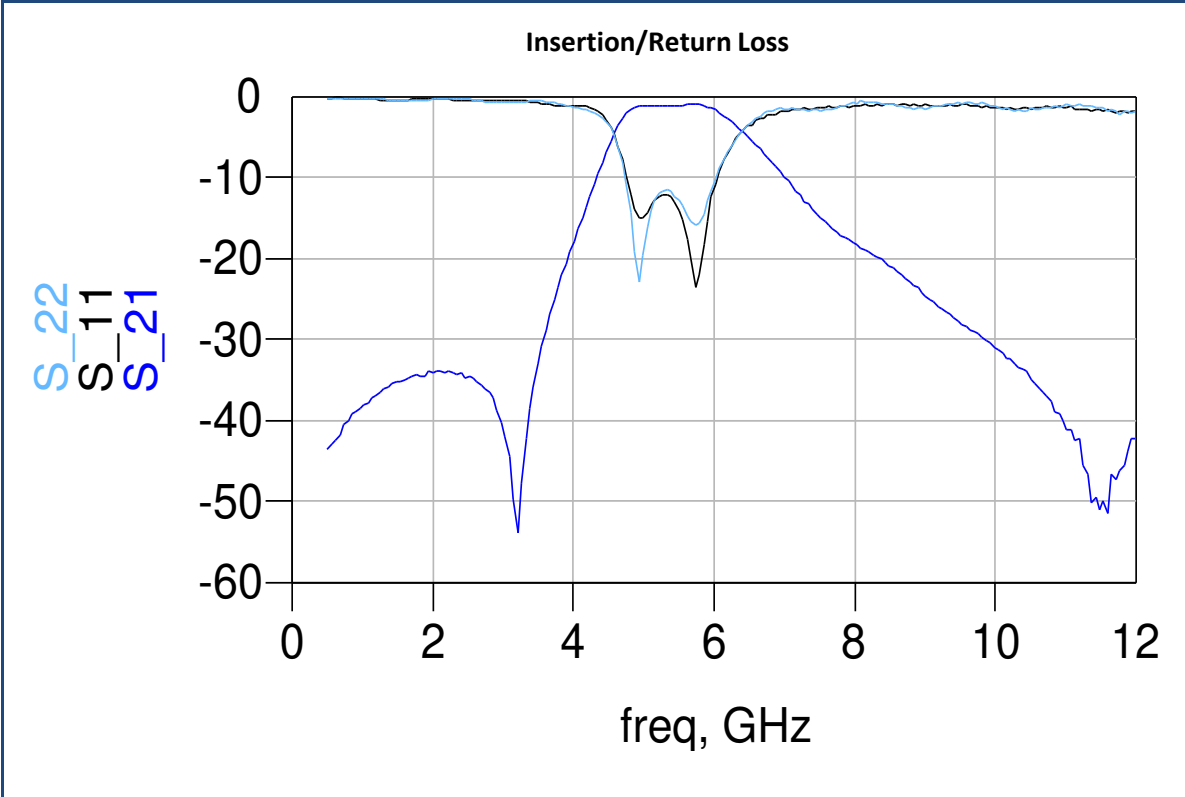
Mounting Considerations

Mount these devices with brown mark facing up.

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



Typical Electrical Performance (T=25°C)



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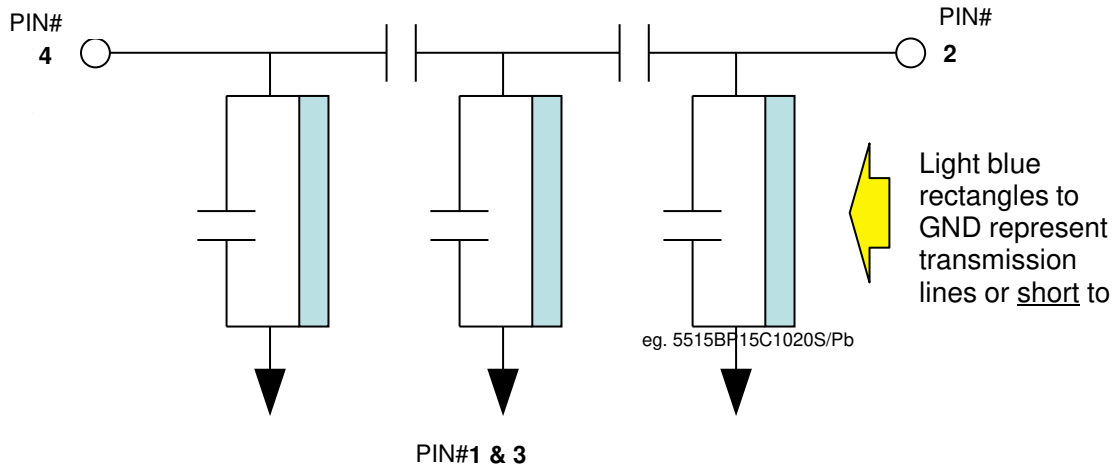
5.5 GHz Band Pass Filter for WiFi or Automotive Satellite

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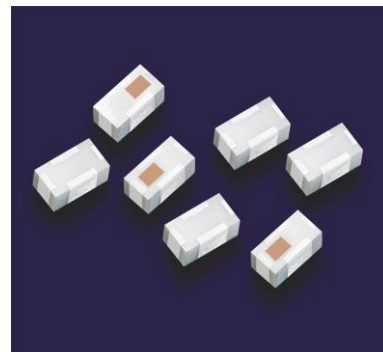
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Internal Representative Layout



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



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Ver 1.3

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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

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RoHS Compliance

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Antenna layout and tuning techniques

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