

"High Frequency Ceramic Solutions"

5.5 GHz Band Pass Filter for WiFi or Automotive Satellite

P/N 5515BP15C1020

Detail Specification: 02/15/2017

Page 1 of 4

General Specifications

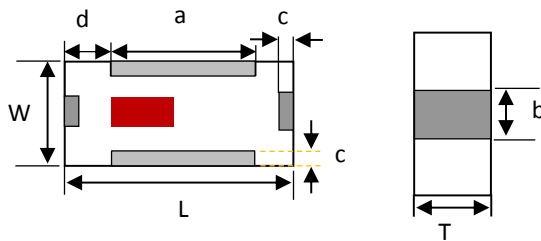
Part Number	5515BP15C1020	Insertion Loss	1.5 dB max.
Frequency (MHz)	4900 - 5920	Input Power	2W max. (CW)
Attenuation (min.)	30 dB @ 3500 MHz	Impedance	50 Ω
Attenuation (min.)	25 dB @ 9800 - 11840 MHz	Operating Temp.	-40 to +85°C
Attenuation (min.)	5 dB @ 14700 - 17760 MHz	Recommended Storage	+5 to +35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

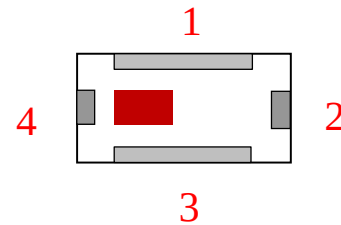
Mechanical Dimensions

	In	mm
L	0.079 $\pm$ 0.006	2.00 $\pm$ 0.15
W	0.049 $\pm$ 0.004	1.25 $\pm$ 0.10
T	0.037 $\pm$ 0.004	0.95 $\pm$ 0.10
a	0.051 $\pm$ 0.006	1.30 $\pm$ 0.15
b	0.012 $\pm$ 0.006	0.30 $\pm$ 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



"High Frequency Ceramic Solutions"

5.5 GHz Band Pass Filter for WiFi or Automotive Satellite

P/N 5515BP15C1020

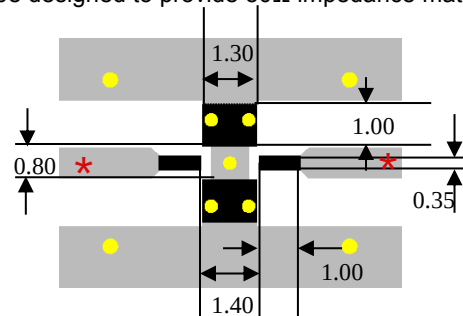
Detail Specification: 02/15/2017

Page 2 of 4

Mounting Considerations

Mount these devices with brown mark facing up.

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



Units: mm

- Solder
- Land
- Through-hole

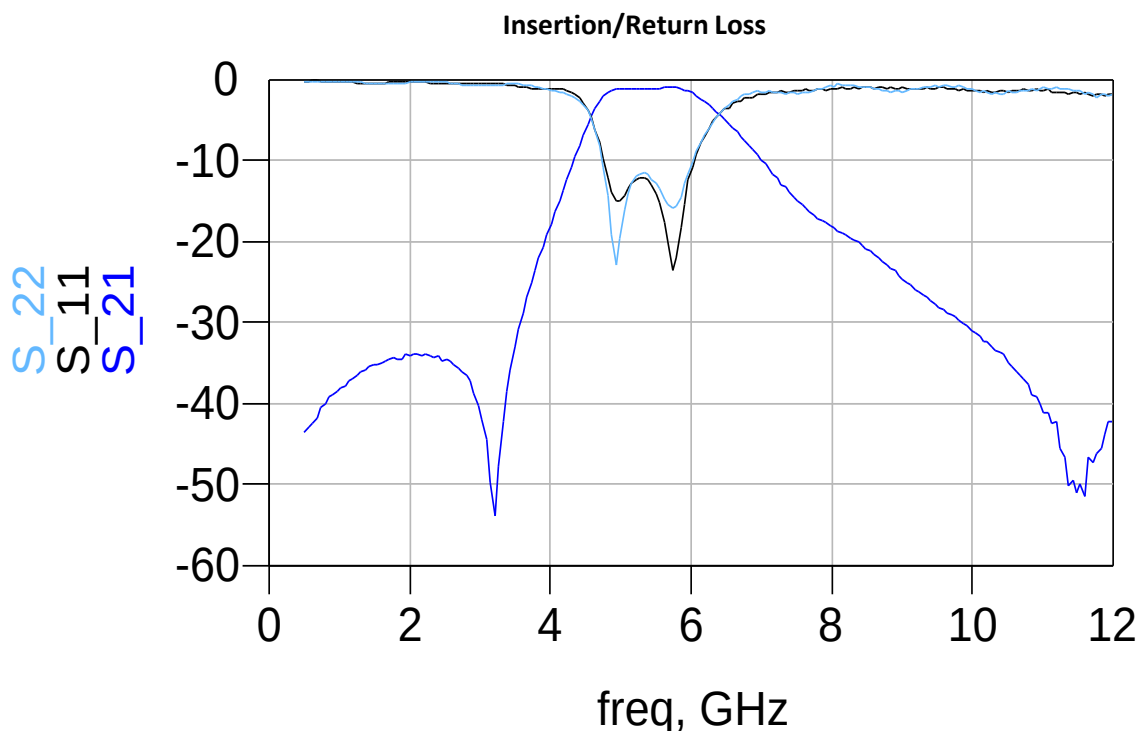
DC Path Internal Connections:

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)



Johanson Technology, Inc. reserves the right to make design changes without notice. Please confirm the specifications and delivery conditions when placing your order. All sales are subject to Johanson Technology, Inc. terms and conditions.



Ver 1.3

www.johansontechnology.com

Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

2017 Johanson Technology, Inc. All Rights Reserved

"High Frequency Ceramic Solutions"

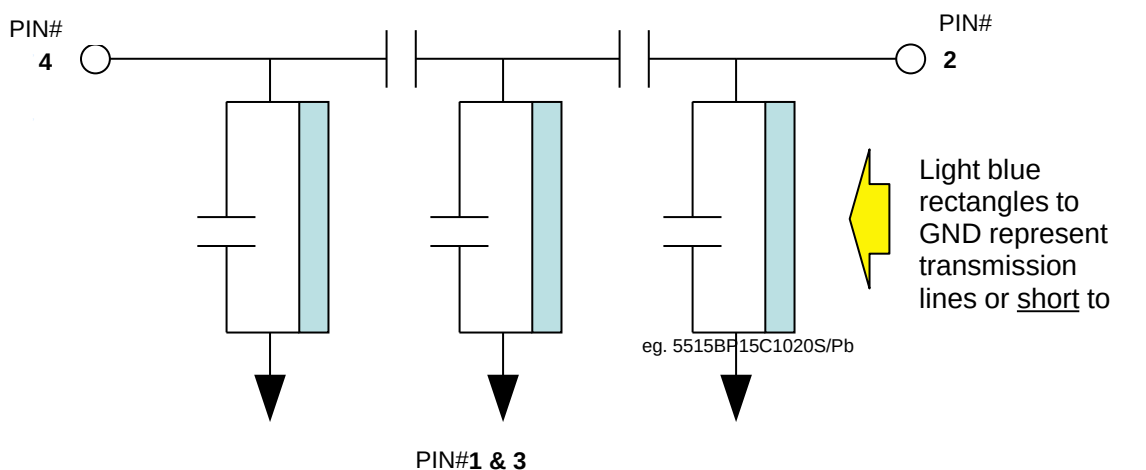
5.5 GHz Band Pass Filter for WiFi or Automotive Satellite

P/N 5515BP15C1020

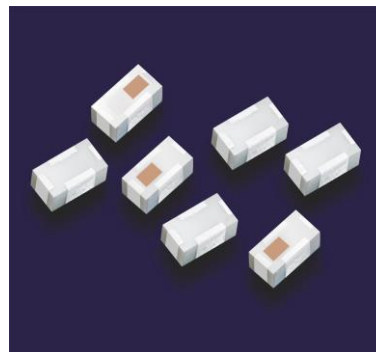
Detail Specification: 02/15/2017

Page 3 of 4

Internal Representative Layout



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



Johanson Technology, Inc. reserves the right to make design changes without notice. Please confirm the specifications and delivery conditions when placing your order. All sales are subject to Johanson Technology, Inc. terms and conditions.



Ver 1.3

www.johansontechnology.com

Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

2017 Johanson Technology, Inc. All Rights Reserved

"High Frequency Ceramic Solutions"

5.5 GHz Band Pass Filter for WiFi or Automotive Satellite

P/N 5515BP15C1020

Detail Specification: 02/15/2017

Page 4 of 4

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

www.johansontechnology.com/tuning

Antenna layout review, tuning, and characterization services

www.johansontechnology.com/ipc-antenna-services

Johanson Technology, Inc. reserves the right to make design changes without notice. Please confirm the specifications and delivery conditions when placing your order. All sales are subject to Johanson Technology, Inc. terms and conditions.



Ver 1.3

www.johansontechnology.com

Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

2017 Johanson Technology, Inc. All Rights Reserved

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Johanson:](#)

[5515BP15C1020E](#)