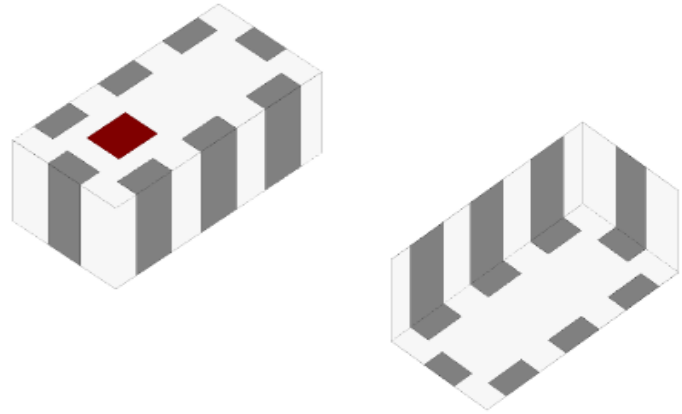


5.15 GHz Low Pass Filter

- 5.15 – 5.875 GHz pass band
- Low insertion loss
- SMD, EIA 0805 (2.0 x 1.25 x 0.95 mm)
- 1W Max. power rating
- RoHS compliant
- Fit for 5 GHz wireless communication systems



General Specifications^{1 2}

Insertion Loss (dB)	5150 - 5875 MHz	0.6 Max. (85°C) 0.7 Max. (105°C)
Return Loss (dB)	5150 - 5875 MHz	10.9 Min.
Attenuation (dB)	10300 - 11750 MHz	25 Min.
	15450 - 17625 MHz	20 Min.

Maximum Ratings

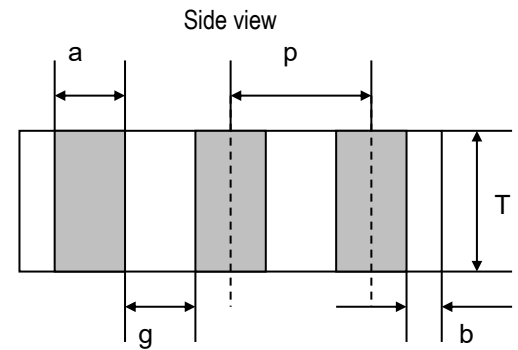
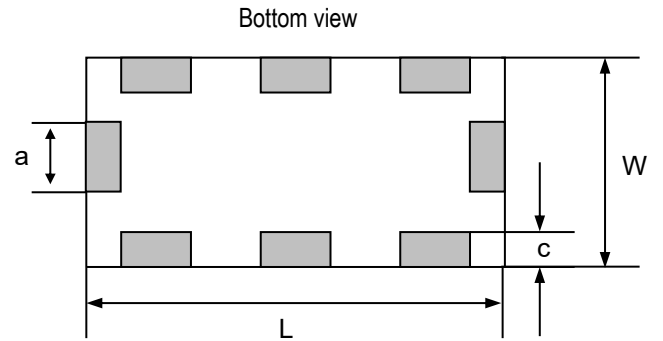
Power Capacity (W)	1 Max. (CW)
Operating Temperature (°C)	-40 to +105
Recommended Storage Conditions post-installation (°C)	-40 to +105
Recommended Storage Conditions and Period for Unused T&R Product	45% - 75% RH +5 to +35 °C 18 Months Max.

¹ Typical value represents average measurement at 25°C. Min./Max. values represent measurements over specified operating temperature.

² General specifications measured on Johanson's evaluation board P/N 5515LP15A0730001CE1.

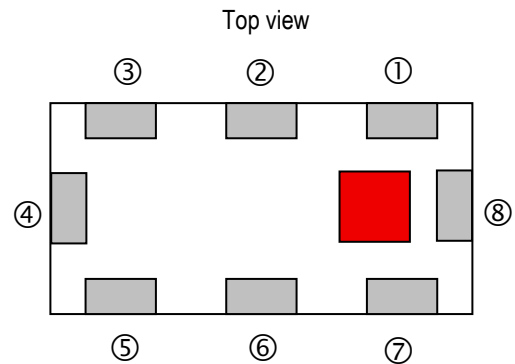
Mechanical Dimensions

	Inches			Millimeters		
L	0.079	±	0.004	2.0	±	0.1
W	0.049	±	0.004	1.25	±	0.1
T	0.037	±	0.004	0.95	±	0.1
a	0.012	±	0.004	0.3	±	0.1
b	0.008	±	0.004	0.2	±	0.1
c	0.012	+0.004/-0.008		0.3	+0.10/-0.20	
g	0.014	±	0.004	0.35	±	0.1
p	0.026	±	0.002	0.65	±	0.05



Terminal Configuration³

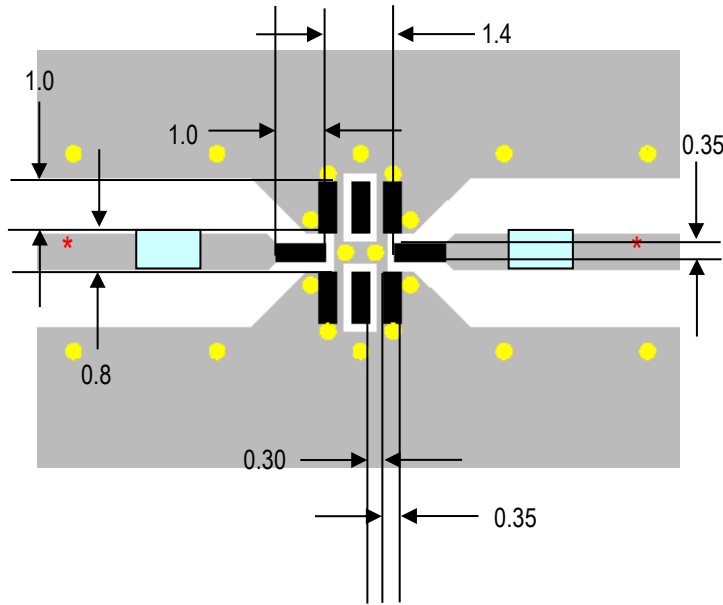
Pin Number	Function
1	GND
2	NC
3	GND
4	INPUT / OUTPUT
5	GND
6	NC
7	GND
8	INPUT / OUTPUT







³ The termination type is Nickel Tin. Go to: <https://www.johansontechnology.com/ipcsoldering-profile> for Typical Soldering Profile.

Recommended PCB Configuration

Note: Mount device with colored mark facing up.



Units in mm

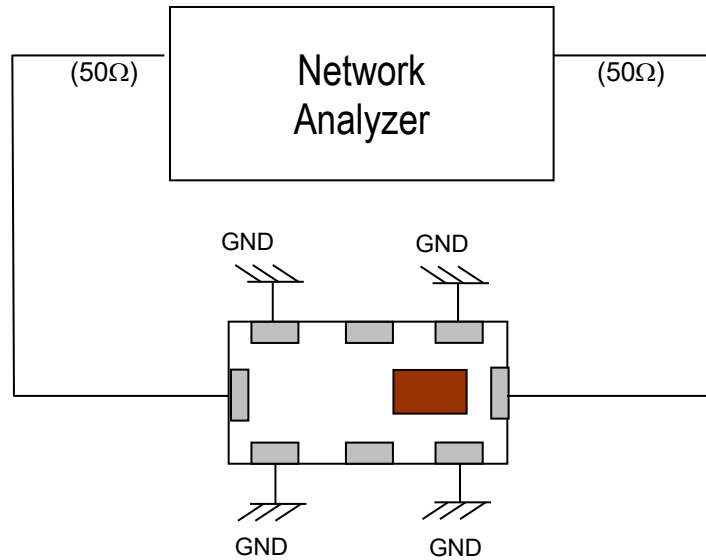
-  Solder Resist
-  Land
-  Through-hole (ϕ 0.3)
-  DC Blocking Capacitor

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

If you'd like the CAD PCB layout or have any questions,
contact our application engineers at <https://www.johansontechnology.com/ask-a-question>

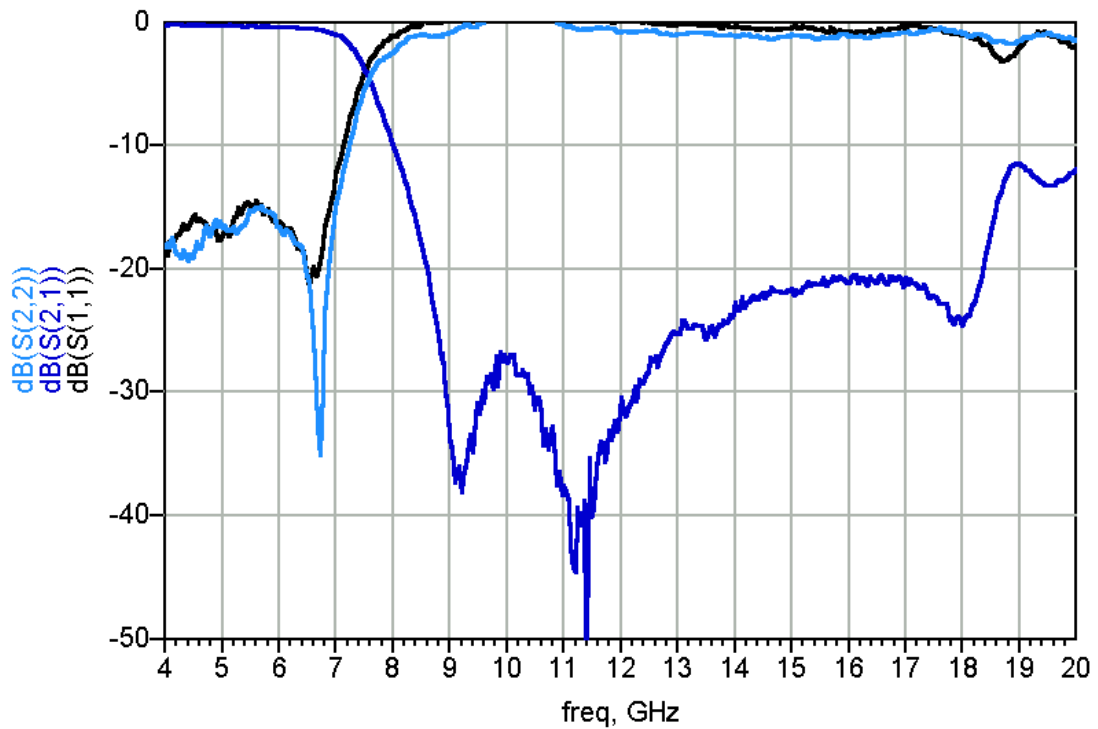


Measuring Diagram



RF Measurement (T = 25°C)

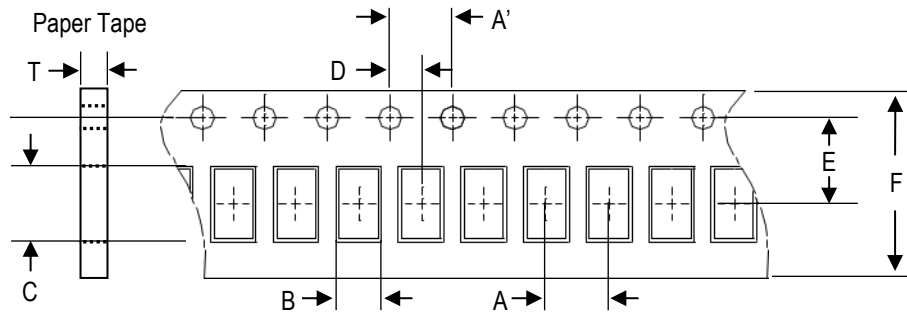
Insertion Loss, Return Loss



S-parameter and layout file available upon request. Please contact us at <https://www.johansontechnology.com/ask-a-question>

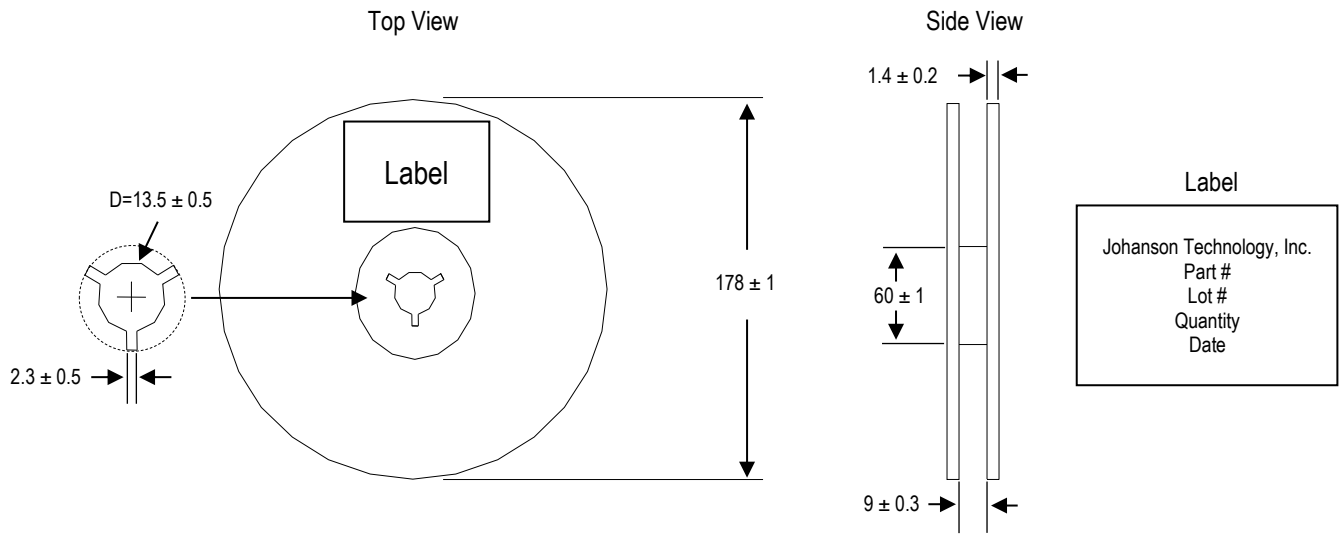
Tape and Reel Specification (Units in mm)

Tape Dimensions

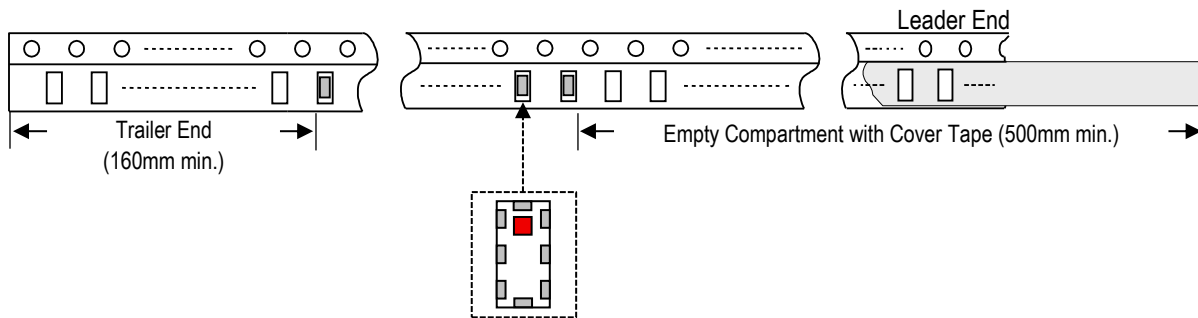


A	A'	B	C	D	E	F	T	Quantity/reel	Tape material
4.0 ± 0.1	4.0 ± 0.1	1.35 ± 0.05	2.15 ± 0.05	2.0 ± 0.05	3.5 ± 0.1	8.0 ± 0.1	1.08 ± 0.05	4,000 pcs	Plastic (Embossed)

Reel Dimensions



Leader and Trailer Dimensions



Orderable Part Numbers

Packaging Style	Part Number	Termination
Bulk (loose pcs.)	5515LP15A0730001B	Nickel Tin
T & R (7" Reel Embossed Tape)	5515LP15A0730001E (Qty: 4,000 pcs/reel)	
Evaluation Board with 2 SMA Connectors	5515LP15A0730001CE1	

Important Links

[5515LP15A0730001E Product Page](#)

[More Low Pass Filters](#)

[Antenna Tuning, Optimization, and Validation Services](#)

[Soldering Information](#)

[MSL Information](#)

[Packaging Information](#)

[Recommended Storage Condition and Max Shelf Life](#)

[RoHS Compliance](#)

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