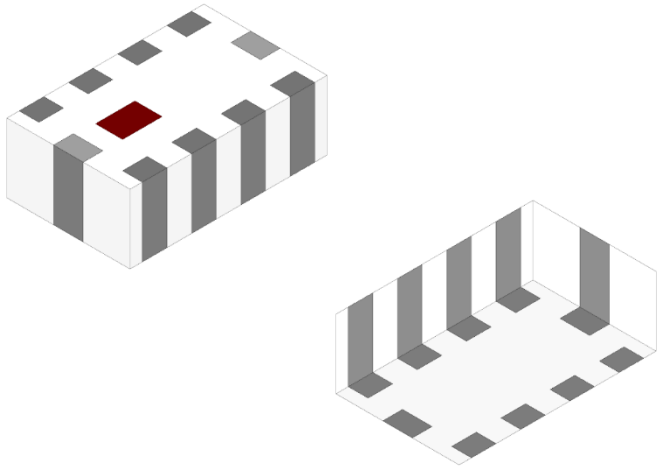
900 MHz Low Pass Filter

- 863 - 960 MHz passband
- For wireless communication systems, including DECT / PACS / PHS / GSM / DCS / PCS phones, WLAN card, Bluetooth modules, etc.
- SMD, EIA 0805
- RoHS complaint



General Specifications[1] [2]

Insertion Loss (dB)	863 - 960 MHz	0.7 Typ.		0.9 Max.
Return Loss (dB)	863 - 960 MHz		9.5 Min.	
Attenuation (dB)	1726 - 1856 MHz	50 Typ.	46 Min.	
	2589 - 2784 MHz	59 Typ.	50 Min.	

Maximum Ratings

Power Capacity (W)	3 Max. (CW)
Operating Temperature (°C)	-40 to +85
Recommended Storage Conditions post-installation (°C)	-40 to +85
Recommended Storage Conditions and Period for Unused T&R Product	45% - 60% RH +5 to +35 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 0900LP15B0063001CE1.

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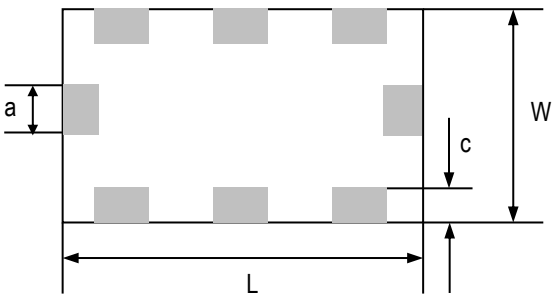
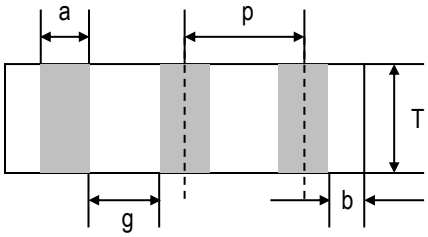
Mechanical Dimensions

	Inches			Millimeters		
L	0.079	±	0.004	2.00	±	0.10
W	0.049	±	0.004	1.25	±	0.10
T	0.037	±	0.004	0.95	±	0.10
a	0.012	±	0.004	0.30	±	0.10
b	0.008	±	0.004	0.20	±	0.10
c	0.012	+.004/-.008		0.30	+.10/-.20	
g	0.014	±	0.004	0.35	±	0.10
p	0.026	±	0.002	0.65	±	0.05

Bottom view



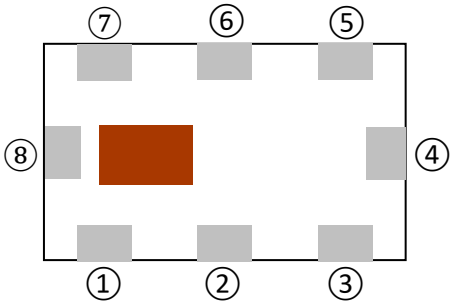
Side view



Terminal Configuration[3]

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

Top view



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

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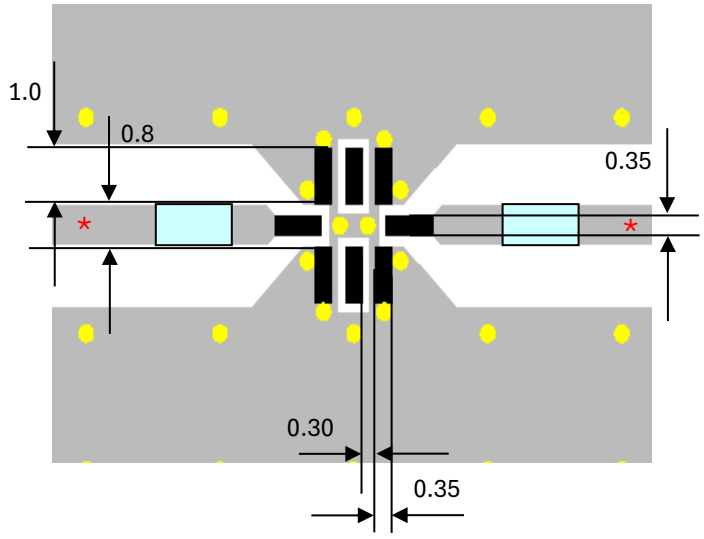
Recommended PCB Layout

Note: Mount device with colored mark facing up.



Units in mm

Solder Resist

Land

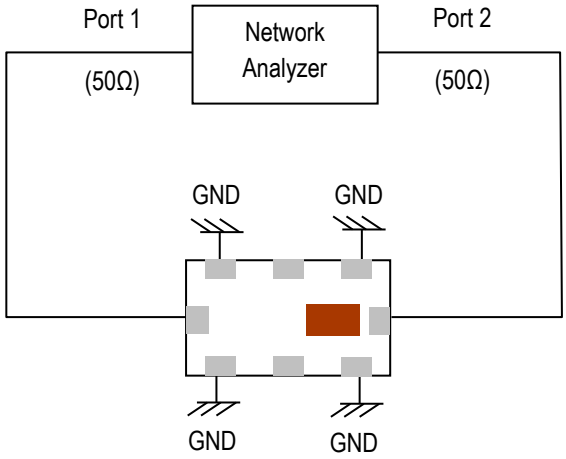
Through-hole (ϕ 0.30)

If DC Blocking is required, use a 10-12pF capacitor in the INPUT/OUTPUT

* 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



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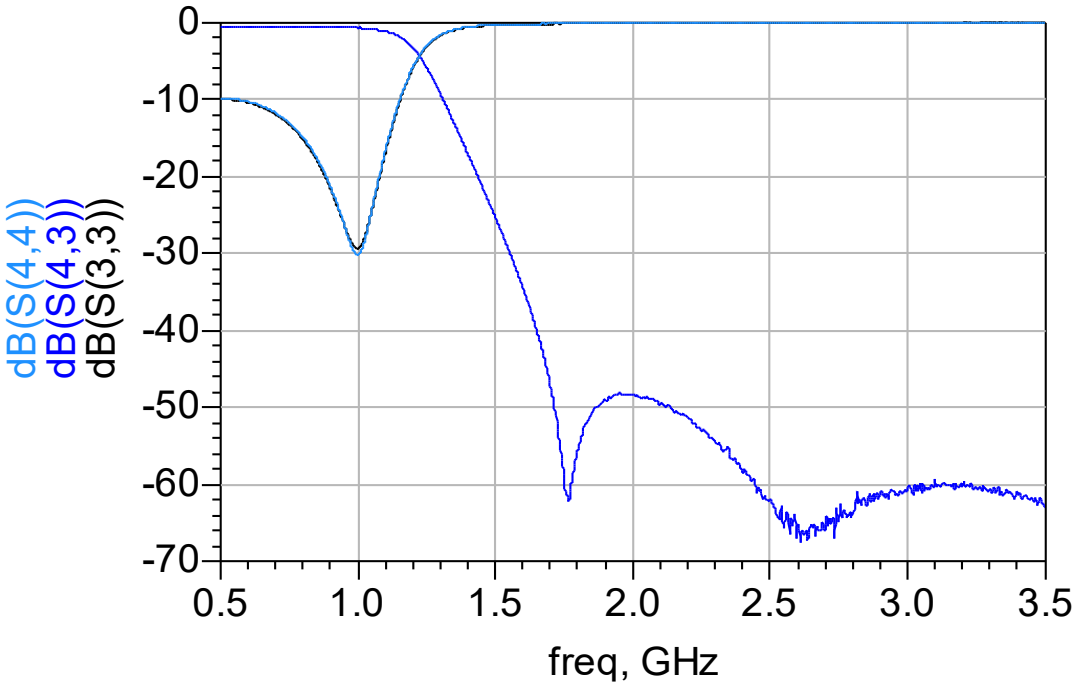
RF Measurement (T = 25°C)

Insertion Loss, Return Loss, Attenuation



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

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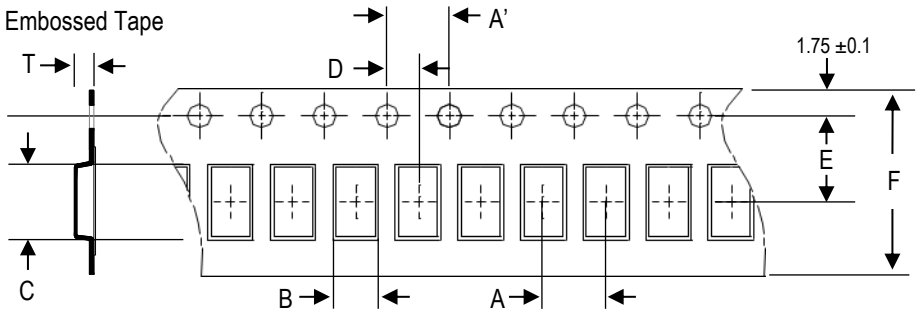
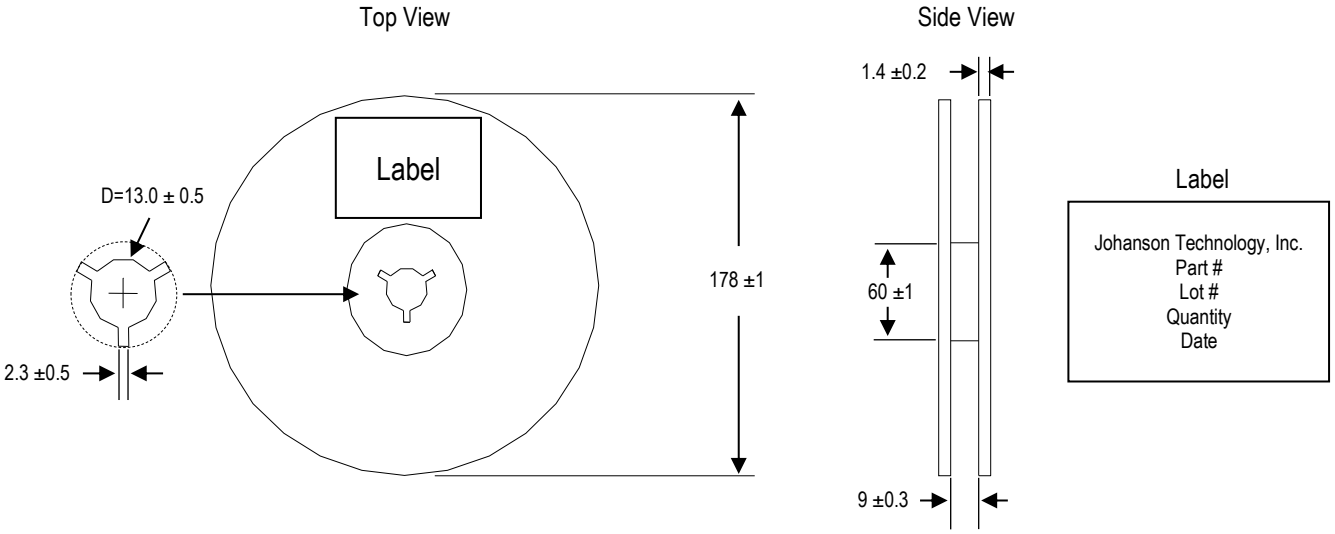
Tape and Reel Specification (Units in mm)

Tape Dimensions

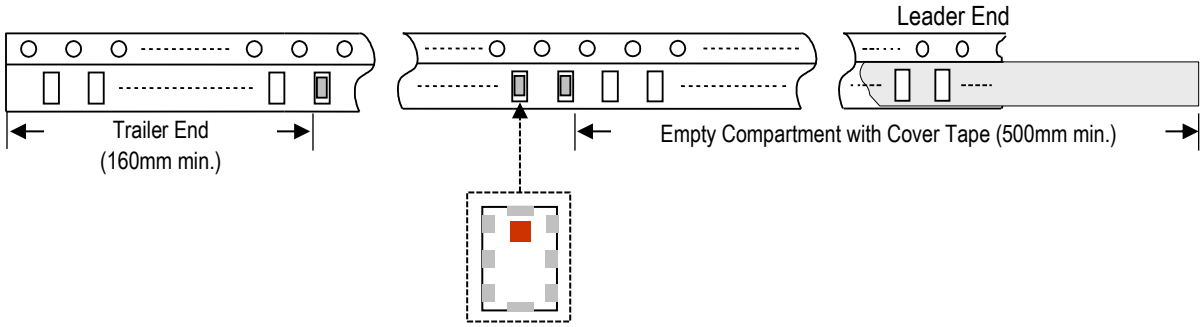


A	A'	B	C	D	E	F	T	Quantity/reel	Tape material
4.0 ±0.1	4.0 ±0.1	1.35 ±0.05	2.15 ±0.05	2.0 ±0.05	3.5 ±0.1	8.0 ±0.1	1.08 ±0.05	4,000pcs.	Plastic (Embossed)

Reel Dimensions



Leader and Trailer Dimensions



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Orderable Part Number

Packaging Style	Part Number	Termination
Bulk (loose pcs.)	0900LP15B0063001B	Nickel Tin
T & R (7" Reel Embossed Tape)	0900LP15B0063001E (Qty: 4,000 pcs/reel)	
Evaluation Board with 2 SMA Connectors	0900LP15B0063001CE1	

Important Links

0900LP15B0063001E 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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