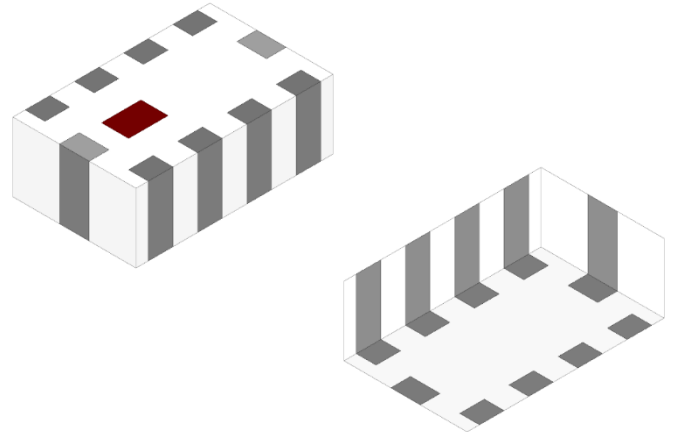


400 MHz Low Pass Filter, AEC-Q200 Qualified

- 312 - 434 MHz passband
- For Lightning, Remote Control, Smart Home, Automotive Key Fobs, Location Services, AMR
- SMD, EIA 0805
- RoHS complaint



General Specifications^{1 2}

Insertion Loss (dB)	312 - 434 MHz	0.9 Typ.	1.3 Max.
Return Loss (dB)	312 - 434 MHz	15 Typ.	9.5 Min.
Attenuation (dB)	624 - 630 MHz	28 Typ.	20 Min.
	800 - 900 MHz	30 Typ.	25 Min.
	900 - 950 MHz	35 Typ.	30 Min.
	1575 MHz	38 Typ.	35 Min.
	1700 - 2100 MHz	34 Typ.	28 Min.
	2195 - 2205 MHz	38 Typ.	35 Min.
	2400 - 2600 MHz	30 Typ.	25 Min.

Maximum Ratings

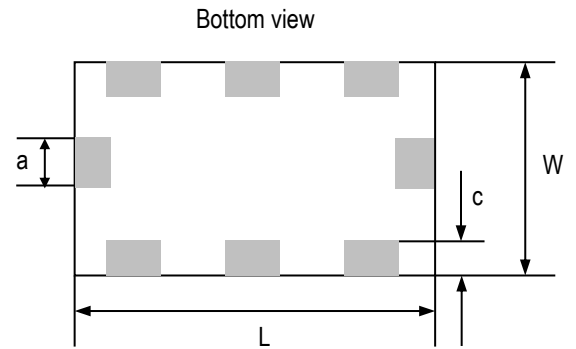
Power Capacity (W)	2 Max. (CW)
Operating Temperature (°C)	-40 to +105
Recommended Storage Conditions post-installation (°C)	-40 to +105
Recommended Storage Conditions and Period for Unused T&R Product	45% - 60% RH +5 to +35 18 Months Max.

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

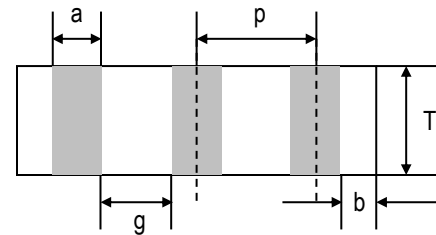
² General specifications measured on Johanson's evaluation board P/N 0400LP15A0122001CE1.

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



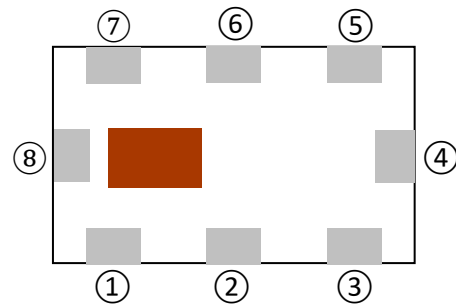
Side view



Terminal Configuration³

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

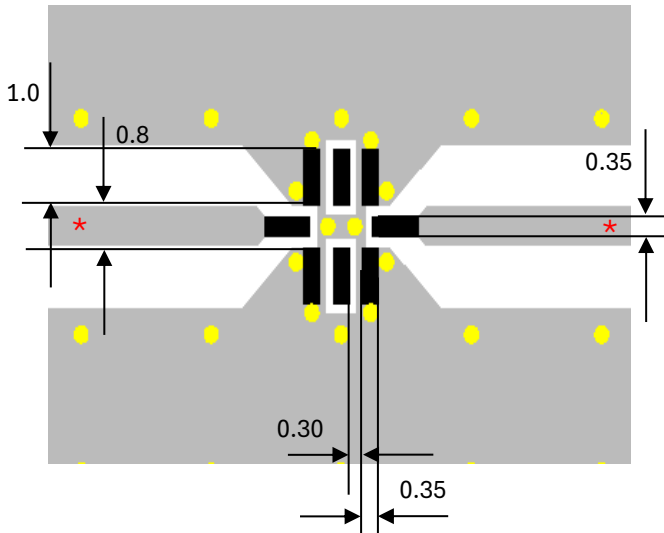
Top view






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

Recommended PCB Layout

Note: Mount device with colored mark facing up.



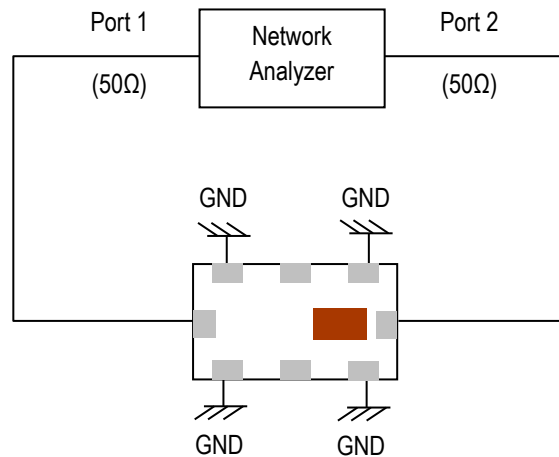
Units in mm

-  Solder Resist
-  Land
-  Through-hole (ϕ 0.30)

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

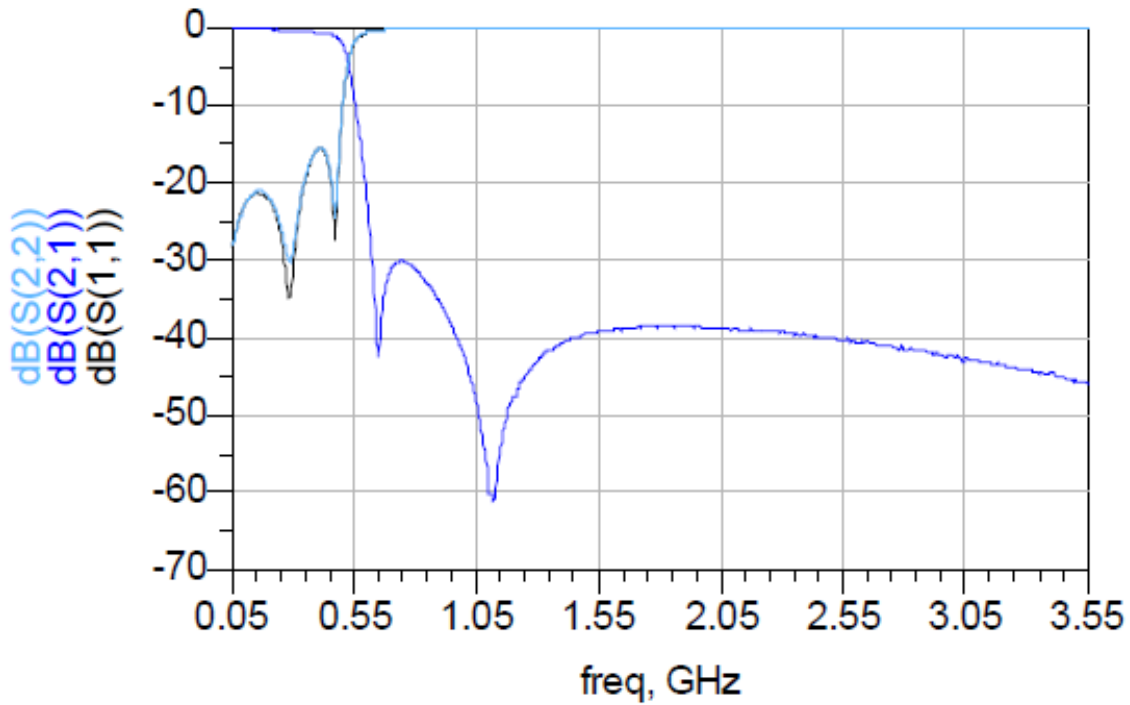
If you'd like the CAD PCB layout or have any questions, contact our application engineers at <https://www.johansontechnology.com/ask-a-question>

Measuring Diagram



RF Measurement (T = 25°C)

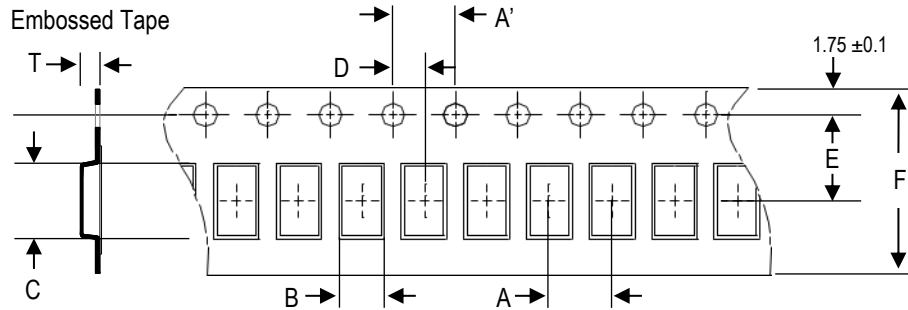
Insertion Loss, Return Loss, Attenuation



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

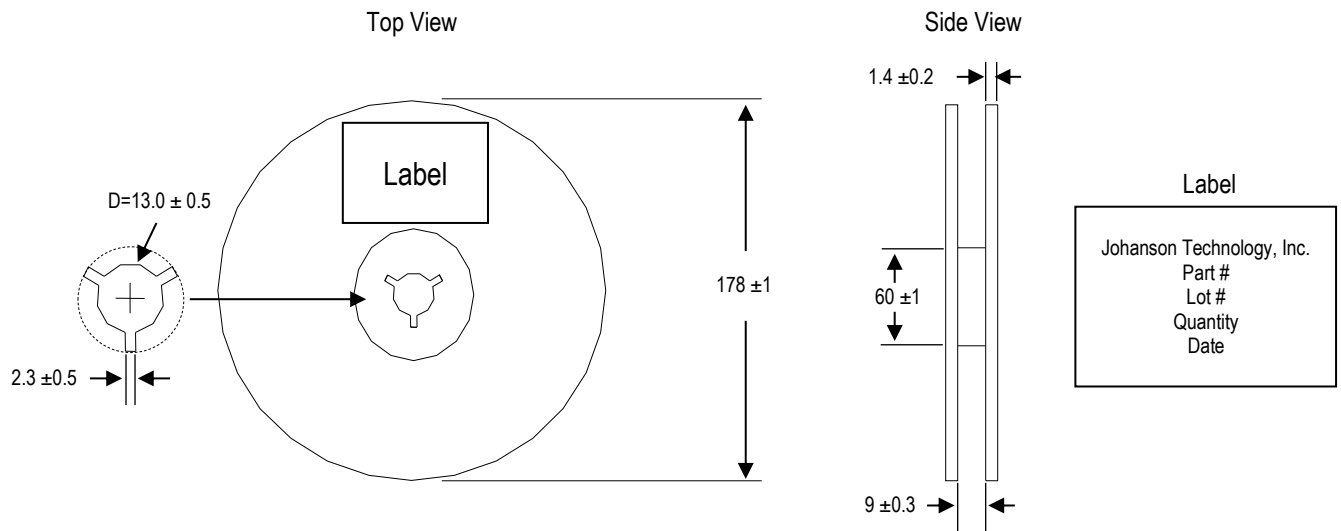
Tape and Reel Specification (Units in mm)

Tape Dimensions

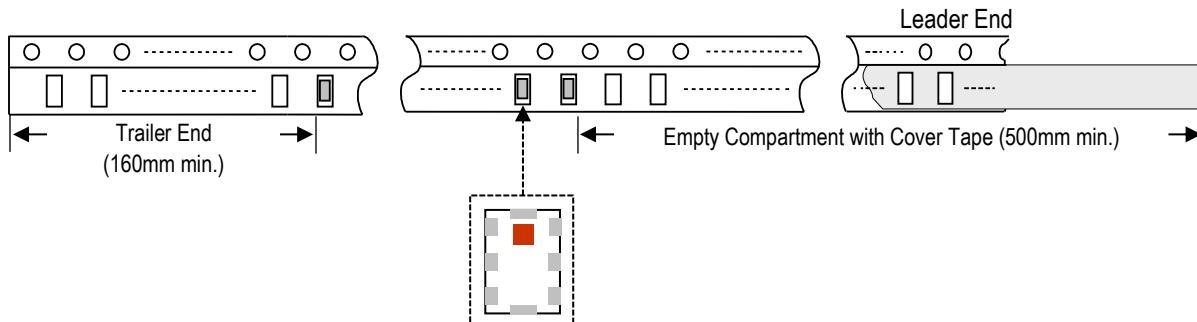


A	A'	B	C	D	E	F	T	Quantity/reel	Tape material
4.0 ±0.1	4.0 ±0.1	1.35 ±0.05	2.15 ±0.05	2.0 ±0.05	3.5 ±0.1	8.0 ±0.1	1.08 ±0.05	4,000pcs.	Plastic (Embossed)

Reel Dimensions



Leader and Trailer Dimensions



Orderable Part Number

Packaging Style	Part Number	Termination
Bulk (loose pcs.)	0400LP15A0122002B	Nickel Tin
T & R (7" Reel Embossed Tape)	0400LP15A0122002E (Qty: 4,000 pcs/reel)	
Evaluation Board with 2 SMA Connectors	0400LP15A0122001CE1	

Important Links

[0400LP15A0122002E 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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