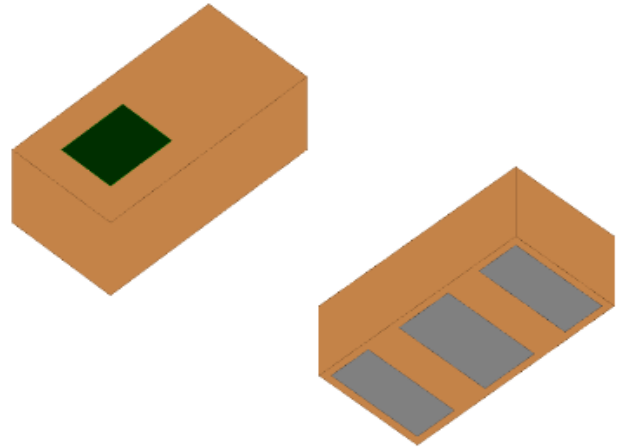


2025 MHz LTE Low Pass Filter

- 800 - 1000 MHz, 1700 - 1910 MHz, 2010 - 2025 MHz passband
- Fit for wireless communication systems such as ISM, DECT, Cellular 4G LTE, 5G applications, etc.
- Low insertion loss
- SMD, EIA 0805 (LGA pads)
- RoHS compliant



General Specifications^{1 2}

Insertion Loss (dB)	800 – 1000 MHz	0.5 Typ.	0.6 Max.
	1700 – 1910 MHz	0.8 Typ.	0.9 Max.
	2010 – 2025 MHz	1.5 Typ.	1.6 Max.
Return Loss (dB)	800 – 1000 MHz	9.5 Min.	
	1700 – 1910 MHz		
	2010 – 2025 MHz		
Attenuation (dB)	2300 – 6100 MHz	20 Min.	
	3700 – 4100 MHz	30 Min.	
	6100 – 8000 MHz	10 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 ³	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.

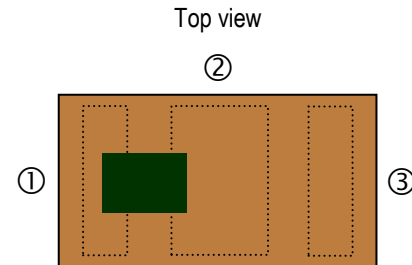
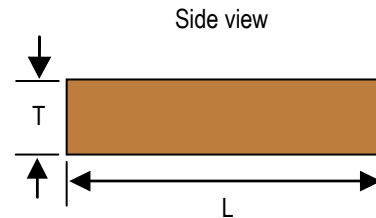
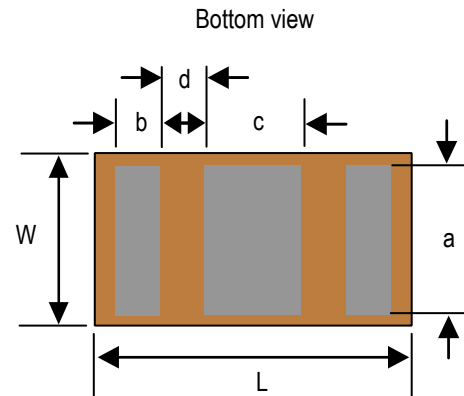
² General specifications measured on Johanson's evaluation board PN 2025LP15A1225001CE1.

³ 18 months max. in vacuum sealed bag and 1 week after opened. Please keep unused parts in vacuum sealed bags. For more info go to

<https://www.johansontechnology.com/silverleads-profile>.

Mechanical Dimensions

	Inches			Millimeters		
L	0.079	±	0.006	2.0	±	0.15
W	0.049	±	0.004	1.25	±	0.10
T	0.037 Max			0.95 Max.		
a	0.037	±	0.004	0.95	±	0.10
b	0.011	±	0.004	0.275	±	0.10
c	0.024	±	0.004	0.60	±	0.10
d	0.010	±	0.002	0.25	±	0.05

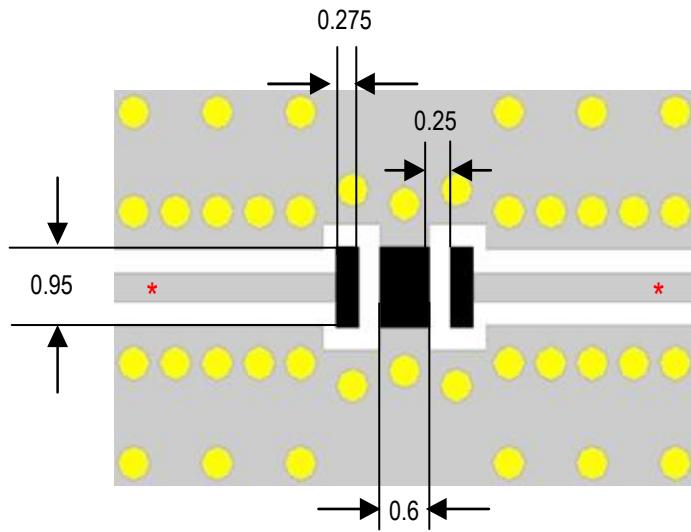


Terminal Configuration⁴




Pin Number	Function
1	INPUT / OUTPUT
2	GND
3	INPUT / OUTPUT

⁴ The termination type is Silver. Go to: <https://www.johansontechnology.com/tech-notes/typical-soldering-profile-ipc/> for Typical Soldering Profile. SAC 305 solder paste recommended.

Recommended PCB Layout



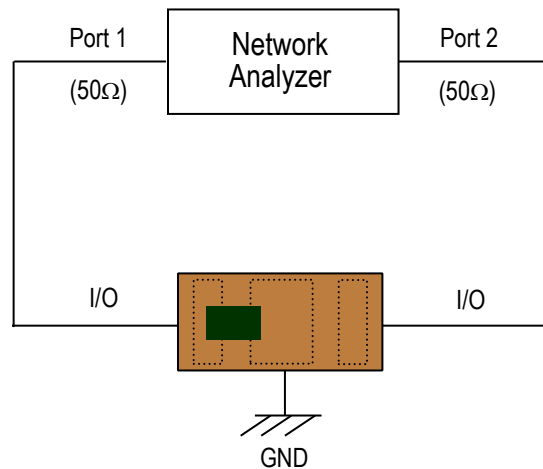
Units in mm

-  Solder Resist
-  Land
-  Through-hole ($\phi 0.35$)

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

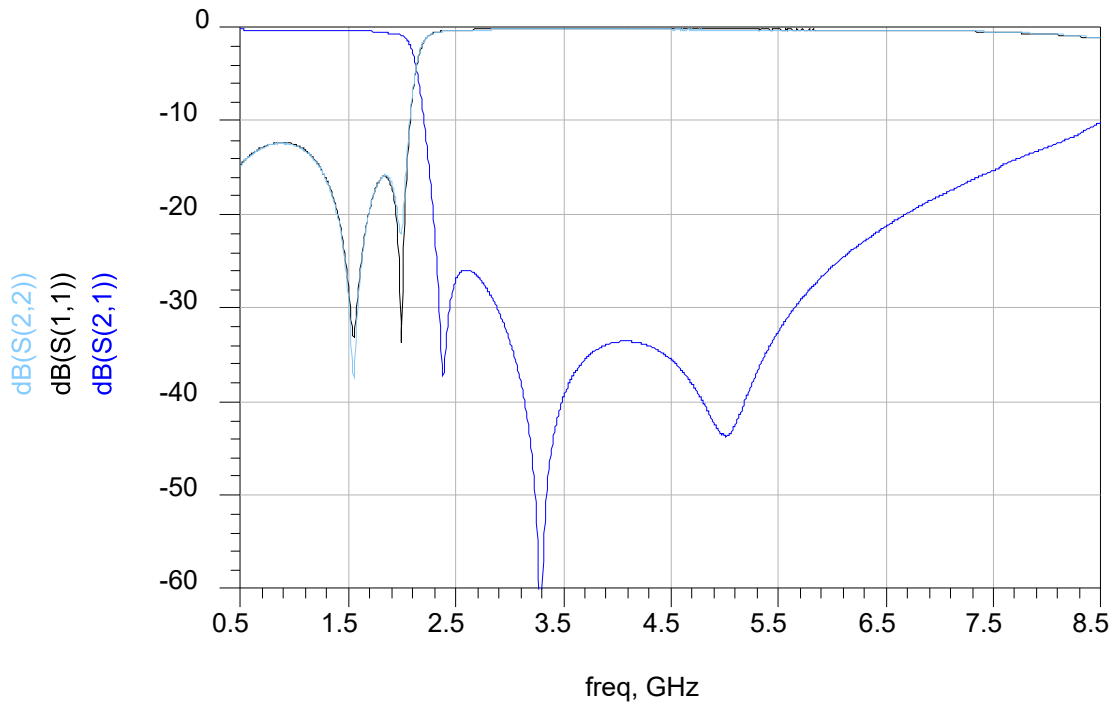
If you would like the full reference design package or have any questions, contact our application engineers at <https://www.johansontechnology.com/ask-a-question>

Measuring Diagram



RF Measurement (T = 25°C)

Insertion Loss, Return Loss and Attenuation



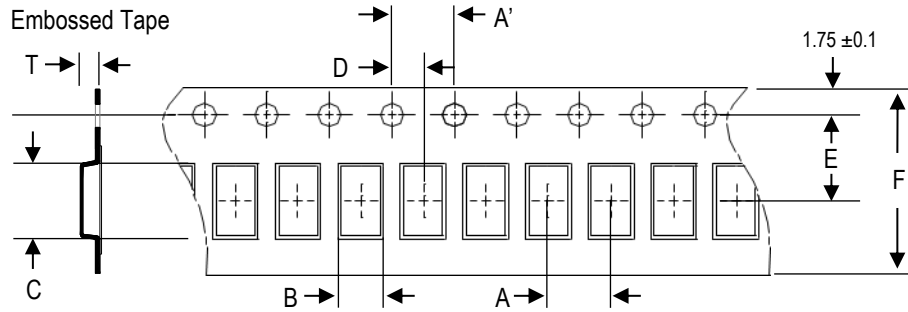
S-parameter, layout files and complimentary design review available upon request. Contact our application engineers at

<https://www.johansontechnology.com/ask-a-question>



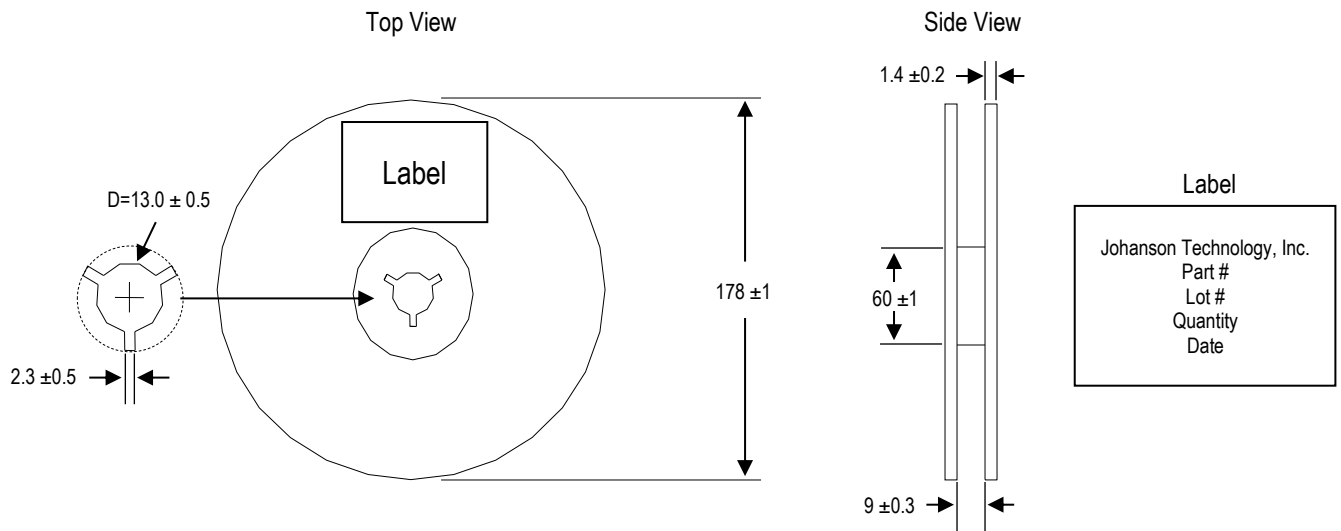
Tape and Reel Specifications (Units in mm)

Tape Dimensions

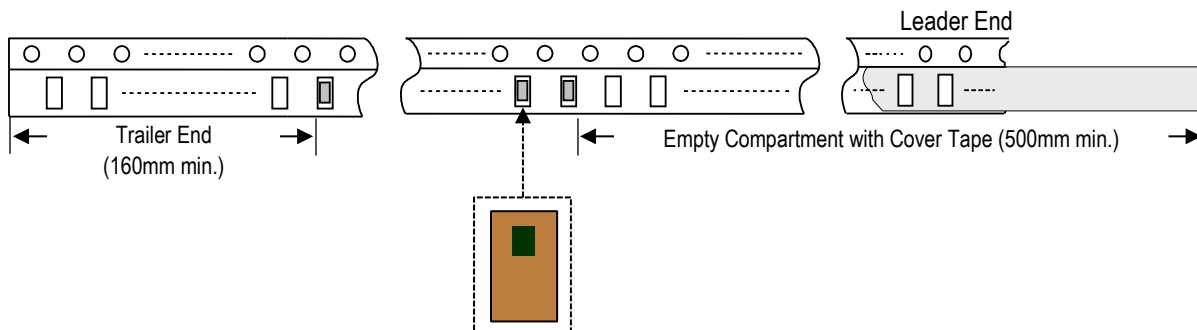


A	A'	B	C	D	E	F	T	Quantity/reel	Tape material
4.0 ±0.1	4.0 ±0.1	1.35 ±0.05	2.15 ±0.05	2.0 ±0.05	3.5 ±0.1	8.0 ±0.1	1.08 ±0.05	4,000pcs.	Plastic (Embossed)

Reel Dimensions



Leader and Trailer Dimensions



Orderable Part Numbers

Packaging Style	Part Number	Termination
Bulk (loose pcs.)	2025LP15A1225001B	Silver
T & R (7" Reel Embossed Tape)	2025LP15A1225001E (Qty: 4,000 pcs./reel)	
Evaluation Board with 2 SMA Connector	2025LP15A1225001CE1	

Important Links

[2025LP15A1225001E 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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