

High Frequency Ceramic Solutions

Low Pass Filter, 2.4GHz. Mini EIA 0402, SMD low loss for Bluetooth (BLE), IoT, WiFi, V2X, Wearables, ISM, etc.

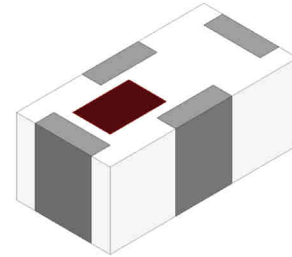
1/N 2450LP07C0100

Detail Specification: 11/15/2017

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Automotive AEC-Q200 available by request:

General Specifications	
Frequency (MHz)	2400 - 2500
Insertion Loss (dB)	0.4 typ (0.6max @25C, 0.7max @-40to+85)
Return Loss (dB)	11 typ. (9.5 min.)
Attenuation (dB)	34 dB @ 2 x fo
Attenuation (dB)	35 dB @ 3 x fo
Power Capacity (W)	3W max. (CW)
Operating Temperature	-40 to +85°C
Storage Temperature	-40 to +85°C
Recommended Storage Conditions (unused product still in T&R)	+5 ~ +35 °C, Humidity 45~75%RH



Part Number Explanation

P/N Suffix	Packing Style	Bulk	Suffix = S	2450LP07C0100S
		T & R (10K/reel)	Suffix = T	2450LP07C0100T (Reel Size: 10,000pcs)
	Termination style	100% Tin	Suffix = None	2450LP07C0100(T or S)
	50Ω SMA Connector Eval Board	2450LP07C0100-EB1SMA (orderable p/n)		

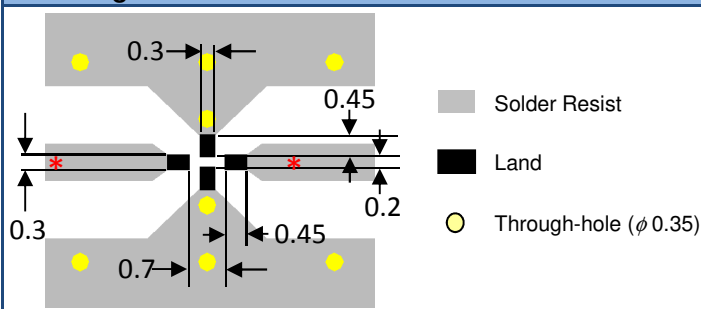
Mechanical Dimensions

	In	mm
L	0.039 ± 0.002	1.00 ± 0.05
W	0.020 ± 0.002	0.50 ± 0.05
T	0.016 max.	0.40 max.
a	0.012 ± 0.004	0.30 ± 0.10
b	0.012 ± 0.004	0.30 ± 0.10
c	0.004 ± 0.002	0.10 ± 0.05
d	0.014 ± 0.004	0.35 ± 0.10

Terminal Configuration

1	GND
2	IN/OUT
3	GND
4	IN/OUT

Mounting Considerations



*Trace must be designed to a 50Ω characteristic impedance based on PCB material and thickness.

Want the layout file or need us to revise your layout (free!) to make sure is correct? Send us a message at:

www.johansontechnology.com/ask-a-question

Johanson Technology, Inc. reserves the right to make design changes without notice.

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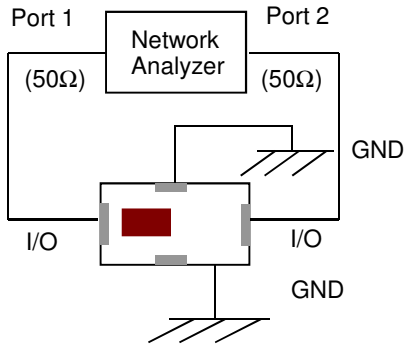
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Measuring Diagram

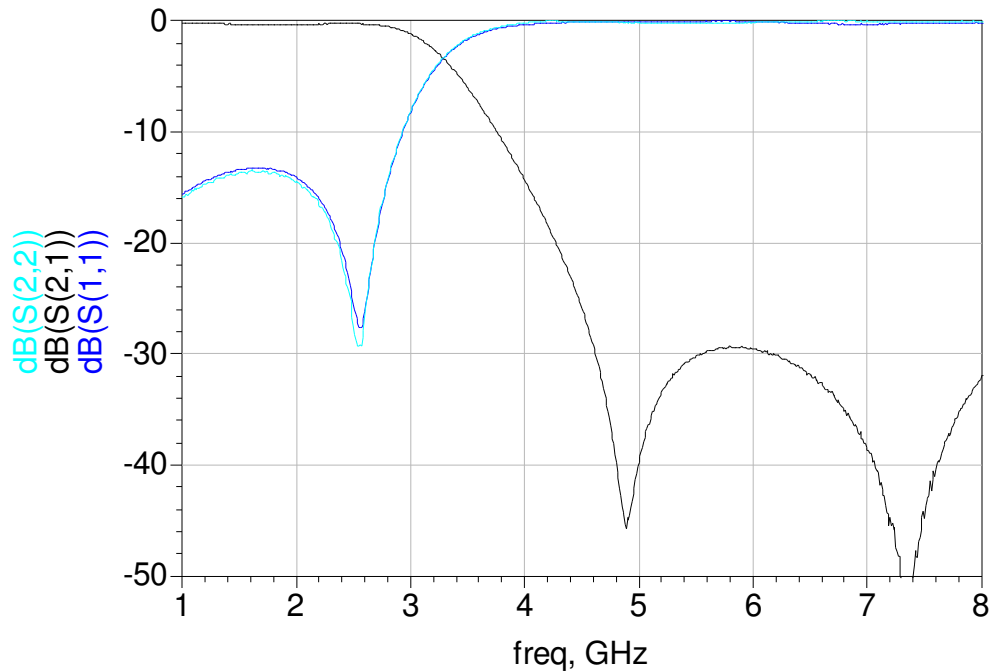


Click here Order the SMA-ready Evaluation Board with this filter mounted, p/n is: 2450LP07C0100-EB1SMA

www.johansontechnology.com/request-a-

Typical Electrical Performance (T=25°C)

Insertion Loss & Attenuation



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Low-pass Filters

www.johansontechnology.com/low-pass-filters

Packaging Information

www.johansontechnology.com/tape-reel-packaging

Soldering Information

www.johansontechnology.com/typical-soldering-profile

RoHS Compliance

www.johansontechnology.com/rohs-compliance

MSL Info

www.johansontechnology.com/msl-rating

To Download Measured S-parameters for Evaluation and Simulation:

www.johansontechnology.com/low-pass-filters

For layout review contact our Applications Team at:

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