LTCC Low Pass Filter

50 2400 to 2500 MHz

Features

- Miniature size 0603 (0.063"[1.6mm] x 0.031"[0.8mm] x 0.024"[0.6mm])
- Low Insertion Loss, 0.5 dB typ. and High rejection.
- · Replaces one inductors and three capacitors
- · Low cost
- · Aqueous washable

Applications

- ISM Band
- WLAN
- Bluetooth
- Zigbee





Operating Temperature	-40°C to +85°C			
Storage Temperature ²	-40°C to +85°C			
RF Power Input ³	2W at 25°C			
2.Refer to product storage temperature after installation Suggestion for T&R unused product storage condition: +5 ~ +35 °C, Humidity 45~75%RH, 12 month Max 3. Derate linearly to 1W at 85°C				

Block Diagram







Insertion Loss Frequency (GHz) VSWR (dB) (:1) 0.17 1.10 1.00 1.50 0.25 1.14 2.00 0.33 1.09 2.30 0.40 1.14 2.40 0.44 1.20 2.44 0.46 1.22 0.49 0.55 1.26 1.34 2.50 2.60 0.88 1.62 3.00 3.50 1.65 1.60 4 00 14.94 18.13 38.81 4.50 38.16 4.80 53.32 39.45 4.90 51.41 39.40 5.00 48 51 39.52 32.69 38.36 5.90 6.50 31.90 44.37 7.20 33.72 63.63 7.50 35.09 76.83 8.50 34.70 103.00

4. Measured with Agilent E5071B network analyzer using port extension.





lMini-Circuits®

LPJC-252R+



CASE STYLE: JC0603C

+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications



Electrical Specifications¹ at 25°C

Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
s Band	Insertion Loss	F1-F2	2400 - 2500	—	0.5	0.7	dB
	VSWR	F1-F2	2400 - 2500	—	1.2	1.5	:1
o Band	Rejection Loss	F3-F4	4800-5000	35	52	—	dB
		F5-F6	7200-7500	25	34	—	dB

Typical Performance Data at 25°C⁴

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Low Pass Filter

Outline Drawing





Pad Connections

Input	2
Output	5
Ground	1, 3, 4, 6

Outline Dimensions (inch)

A	B	C	D	E	F
.063	.031	.024	.012	.008	.006
1.60	0.79	0.61	0.30	0.20	0.15
G	H	J	K		wt
.020	.010	.022	.053		grams
0.51	0.25	0.56	1.35		0.005

Additional Notes

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

LPJC-252R+

Evaluation Board MCL P/N: TB-1020+ Suggested PCB Layout (PL-554)





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