Bandpass Filter

2400 to 2500 MHz

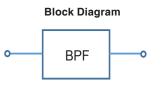
50Ω

Features

- High Rejection.
- Miniature size 0603
- Low cost
- Aqueous washable

Applications

- ISM Band
- WLAN
- Bluetooth
- Zigbee





BPJC-252R+

CASE STYLE: JC0603C-1

+RoHS Compliant

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

Available Tape and Reel at no extra cost						
Reel Size	Devices/Reel					
7"	20, 50, 100, 200, 500, 1000, 3000					

Electrical Specifications at 25°C

Parar	neter	F#	Frequency (MHz)	Min.	Тур.	Тур. Мах.	
	Center Frequency		—	-	2450	-	MHz
Pass Band	Insertion Loss	F1-F2	2400 - 2500	-	2.3	3.2	dB
	VSWR	F1-F2	2400 - 2500	-	1.4	2	:1
Stop Band, Lower	Dejection		695 - 880	25	46	_	dB
	Rejection		1910	20	26	_	dB
			3200	35	38	_	dB
Stop Band, Upper	Rejection		4800 - 5000	20	29	-	dB
	•		7200 - 7500	20	43	-	dB

1. Tested on Evaluation Board TB-1023+.

Maximum Ratings

Operating Temperature	-40°C to +85°C			
Storage Temperature*	-40°C to +85°C			
RF Power Input**	0.5W at 25°C			
* Defer to product store as temperature often installation				

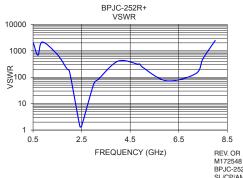
* Refer to product storage temperature after installation Suggestion for T&R unused product storage condition: +5 ~ +35 °C, Humidity 45~75%RH, 12 month Max

**Derate linearly to 0.25W at 85°C.

Typical Performance Data at 25°C

.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Frequency (GHz)	Insertion Loss (dB)	VSWR (:1)			
0.50	48.37	2136.92			
0.70	46.33	677.41			
0.88	45.53	2146.38			
1.50	50.11	725.50			
1.90	27.37	204.87			
2.00	22.95	167.73			
2.40	2.81	1.80			
2.44	2.23	1.30			
2.50	2.11	1.42			
3.00	23.70	55.93			
3.20	36.29	85.70			
4.00	30.90	407.47			
4.80	29.18	315.18			
4.90	29.11	315.66			
5.00	29.05	243.46			
6.00	30.18	73.23			
7.20	42.31	137.13			
7.50	45.22	505.84			
8.00	37.15	2458.98			





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1 2 3

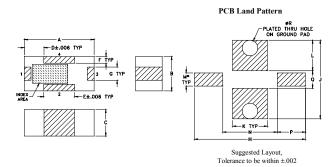
Top View

Pad Connections				
Input	1			
Output	3			
Ground	2,4			

www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

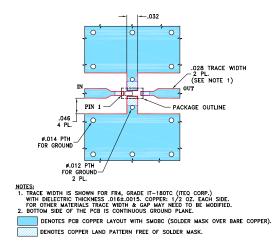
Bandpass Filter

Outline Drawing



BPJC-252R+

Demo Board MCL P/N: TB-1023+ Suggested PCB Layout (PL-563)



Outline Dimensions (inch)

A	B	C	D	E	F	.012	H	J
.063	.031	.024	.018	.028	.006		.100	.071
1.60	0.79	0.61	0.46	0.71	0.15		2.54	1.80
K .032 0.81	L .028 0.71	.012	N .049 1.24	P .026 0.66	.016	R .014 0.36		wt grams 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

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