High Pass Filter

 50Ω

4900 to 5850 MHz

Features

- Miniature size 0603
- Low Insertion Loss, 0.5 typ.
- · Low cost
- · Aqueous washable

Applications • ISM Band

- WLAN
- Bluetooth
- Zigbee

HPJC-492R+



Generic photo used for illustration purposes only

CASE STYLE: JC0603C-7

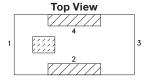
+RoHS Compliant

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

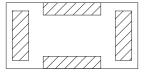


Block Diagram





Bottom View



Pad Connections

Input	1
Output	3
Ground	2,4

Electrical Specifications at 25°C

Pa	arameter	Frequency (MHz) Min. Typ. Max.		Unit			
Pass Band	Insertion Loss ¹	4900 - 5850	_	0.5	0.9	dB	
Pass Ballu	VSWR	4900 - 5850	_	- 1.2 2.0	:1		
Cton Bond	Dejection Loss	500 - 2400	_	25	_	dB	
Stop Band	Rejection Loss	2400 - 2500	25	36	_		

^{1.} Tested on Evaluation Board TB-1027+

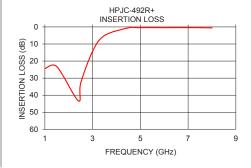
Maximum Ratings

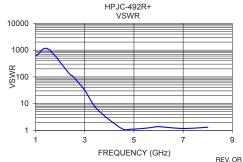
Operating Temperature	-40°C to 85°C
Storage Temperature ²	-40°C to 85°C
RF Power Input ³	2W at 25°C

^{2.} Refer to product storage temperature after installation Suggestion for T&R unused product storage condition: $+5 \sim +35$ °C, Humidity $45 \sim 75$ %RH, 12 month Max

Typical Performance Data at 25°C

Frequency (GHz)	Insertion Loss (dB)	VSWR (:1)
0.50	29.47	627.15
1.00	24.45	604.00
1.50	23.27	1110.07
2.40	43.28	122.82
2.50	32.96	109.17
3.00	14.28	31.83
3.50	5.03	6.30
4.50	0.54	1.18
4.90	0.44	1.12
5.00	0.43	1.12
5.50	0.40	1.22
5.90	0.44	1.36
6.00	0.44	1.39
7.00	0.40	1.18
8.00	0.54	1.31

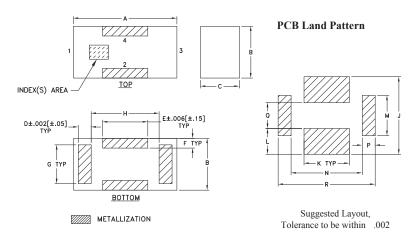




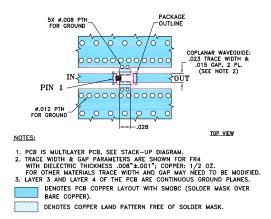
M172548 HPJC-492R+ SL/CP/AM 190628 Page 1 of 2

^{3.} Derate linearly to 1W at 85°C.

Outline Drawing



Evaluation Board MCL P/N: TB-1027+ Suggested PCB Layout (PL-565)



Outline Dimensions (inch)

J	Н	G	F	E	D	С	В	Α
.047	.041	.024	.006	.028	.008	.024	.032	.063
1.19	1.04	0.6096	0.15	0.71	0.20	0.61	0.81	1.60
wt		R	Q	Р	N	M	L	K
grams		0.059	.016	.008	.043	.024	.016	.028
.005		1.50	0.41	0.20	1.09	0.61	0.41	0.71

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

