

Bandpass Filter

EBPF-119-1+

50Ω 108 to 130 MHz

Features

- Miniature shielded package
- Low insertion loss
- High rejection

CASE STYLE: HE1354

Applications

- Defense/Military
- Military Radio Communications

Electrical Specifications

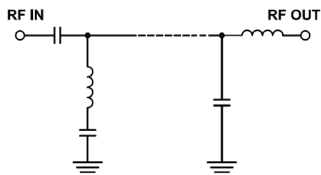
Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	F1-F2	—	119	—	MHz
	Insertion Loss	F1-F2	108 - 130	2.8	3.5	dB
	Return Loss	F1-F2	108 - 130	12	—	dB
Stop Band, Lower	Rejection	DC-F3	DC - 88	20	—	dB
Stop Band, Upper	Rejection	F4-F5	150 - 500	17	20	dB
		F5-F6	500 - 2500	—	20	dB

Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-40°C to 85°C
RF Power Input	0.5 W

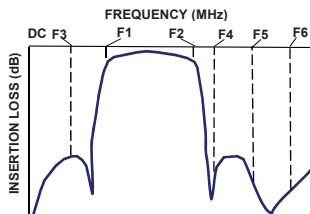
Permanent damage may occur if any of these limits are exceeded.

Functional Schematic



Typical Performance Data at 25°C

Typical Frequency Response



+RoHS Compliant

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

Notes

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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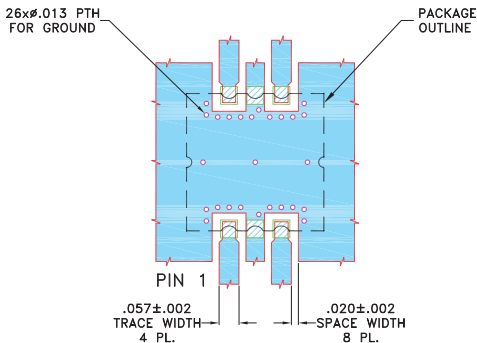
www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

Pad Connections

INPUT	1
OUTPUT	6
GROUND	2,5
NOT USED	3,4

Demo Board MCL P/N: TB-XXXX+
Suggested PCB Layout (PL-680)

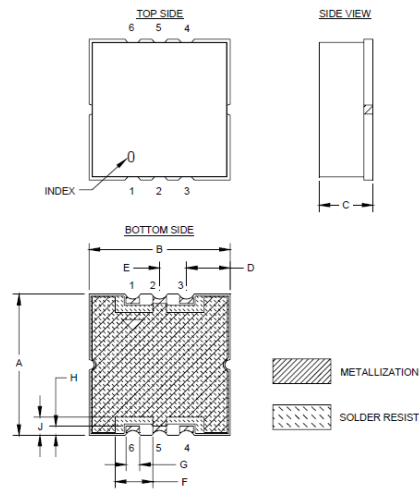
SUGGESTED MOUNTING CONFIGURATION FOR
HE1354 CASE STYLE



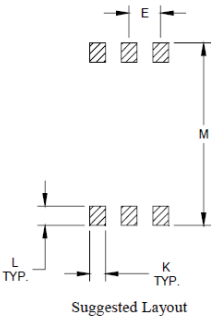
NOTES:

- TRACE WIDTH IS SHOWN FOR ROGERS (R04350B) WITH DIELECTRIC THICKNESS .030"±.002". COPPER: 1/2 OZ. EACH SIDE.
FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
 - BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
- DENOTES PCB COPPER LAYOUT WITH SMOBC
(SOLDER MASK OVER BARE COPPER)
- DENOTES COPPER LAND PATTERN FREE OF SOLDERMASK

Outline Drawing



PCB Land Pattern



Outline Dimensions (inch mm)

A	B	C	D	E	F	G	H	J	K
.394	.394	.150	.122	.075	.098	.038	.026	.051	.038
10.01	10.01	3.81	3.10	1.90	2.49	0.97	0.66	1.29	0.97
L	M								Wt.
.046	.434								grams
1.17	11.02								0.7

Note: Please refer to case style drawing for details

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