Surface Mount

Bandpass Filter

EBPF-69-1+

50Ω 30 to 108 MHz

Features

- Miniature shielded package
- Low insertion loss
- High rejection

CASE STYLE: HE1354

Applications

- Defense/Military
- Military Radio Communications

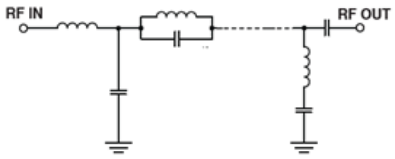
Electrical Specifications

Parameter		F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	—	—	—	69	—	MHz
	Insertion Loss	F1-F2	30 - 34	—	—	2.7	dB
	Insertion Loss	F2-F3	34 - 108	—	—	2.0	dB
	Return Loss	F1-F3	30 - 108	12	—	—	dB
Stop Band, Lower	Rejection	DC-F4	DC - 25	15	—	—	dB
Stop Band, Upper	Rejection	F5-F6	165 - 1000	30	—	—	dB
		F6-F7	1000 - 3000	—	30	—	dB

Maximum Ratings	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5 W

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

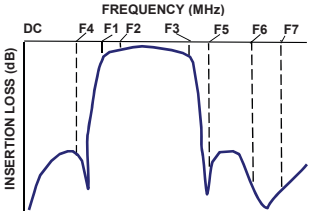
Functional Schematic



Typical Performance Data at 25°C

TBD

Typical Frequency Response



+RoHS Compliant

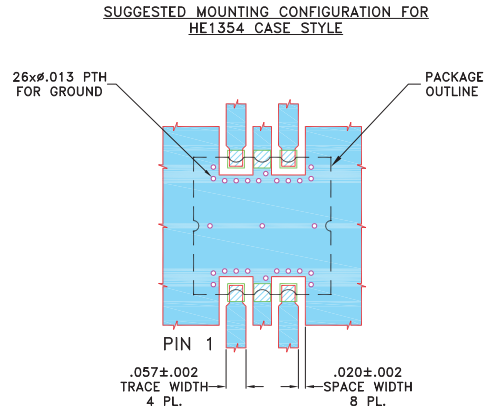
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

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

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)



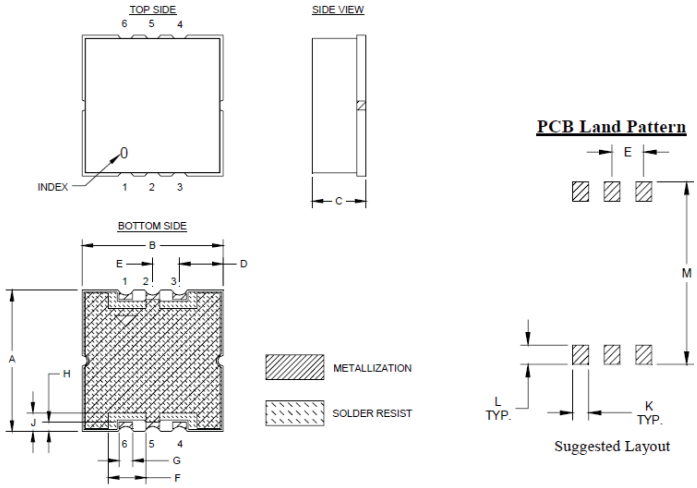
NOTES:

1. TRACE WIDTH IS SHOWN FOR ROGERS (RO4350B) WITH DIELECTRIC THICKNESS .030"±.002". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. 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



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