

Surface Mount

Bandpass Filter

EBPF-487R5-1+

50Ω 225 to 750 MHz

Features

- Miniature shielded package
- Low insertion loss
- High rejection

CASE STYLE: HE1354

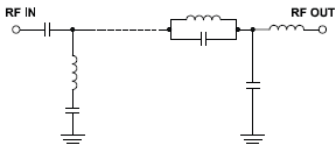
Electrical Specifications at -40°C to 85°C

Parameter		F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	F1-F2	225 - 750	—	1.3	2.5	dB
	Return Loss	F1-F2	225 - 750	10	14	—	dB
Stop Band, Lower	Rejection	DC-F3	DC - 108	35	—	—	dB
		F4	@ 130	20	—	—	dB
Stop Band, Upper	Rejection	F5	@ 950	20	—	—	dB
		F6-F7	1500 - 2200	35	—	—	dB

Applications

- Defense/Military
- Military Radio Communications

Functional Schematic



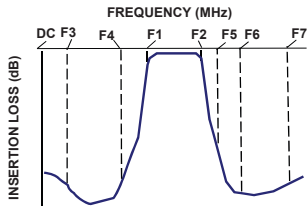
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	27 dBm (CW)(Passband)

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

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

- 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.
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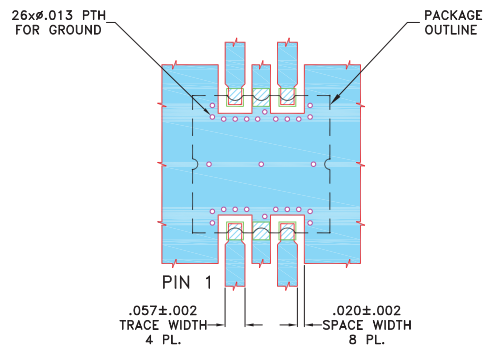
REV. OR
ECO-010841
EBPF-487R5-1+
EDUXXXX
URJ
211130
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Pad Connections

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

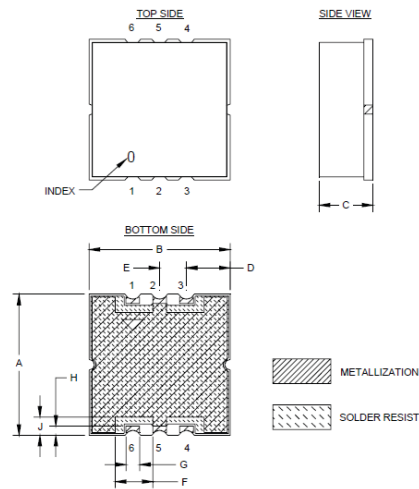
Demo Board MCL P/N: TB-XXXX+
Suggested PCB Layout (PL-680)

SUGGESTED MOUNTING CONFIGURATION FOR
HE1354 CASE STYLE

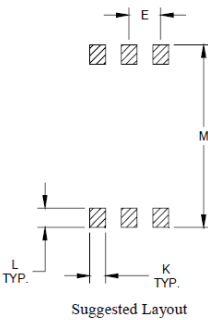


- NOTES:
- 1. TRACE WIDTH IS SHOWN FOR ROGERS (R04350B) WITH DIELECTRIC THICKNESS .030"±.002". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
 - 2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
- DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)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

Outline Drawing



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								
.046	.434								
1.17	11.02								
									Wt.
									grams
									0.7

Note: Please refer to case style drawing for details

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