Bandpass Filter

EBPF-545-1+

50Ω 340 to 750 MHz

FEATURES

- · Miniature shielded package
- · Low insertion loss
- · High rejection

APPLICATIONS

- Defense / Military
- Military Radio Communications

CASE STYLE: HE1354

+RoHS Compliant

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

ELECTRICAL SPECIFICATIONS AT -40°C TO 85°C

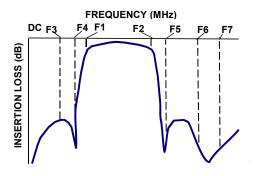
Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Units	
Passband	Insertion Loss	F1-F2	340 - 750	_	1	1.7	dB	
	Return Loss	F1-F2	340 - 750	10	12	_	dB	
Stop Band, Lower	Rejection	DC-F3	DC - 135	35	_	_	dB	
		F4	220	20	27	_		
Stop Band, Upper	Rejection	F5	900	10	17	_	dB	
		F6-F7	1000 - 2000	35	_	-	dB	

MAXIMUM RATINGS

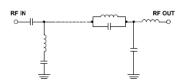
Parameter	Ratings
Operating temperature	-40°C to +85°C
Storage temperature	-55°C to +100°C
RF Power Input *	27 dBm (CW)

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

TYPICAL FREQUENCY RESPONSE



FUNCTIONAL SCHEMATIC



REV. X0 ECO-014662 EBPF-545-1+ EDUXXXX URJ 220822





SURFACE MOUNT

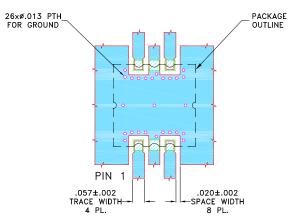
Bandpass Filter

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PAD CONNECTIONS

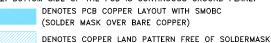
RF IN	1
RF OUT	6
GROUND	2,5
NOT USED	3,4

DEMO BOARD MCL P/N: TB-XXXX+ SUGGESTED PCB LAYOUT (PL-680)

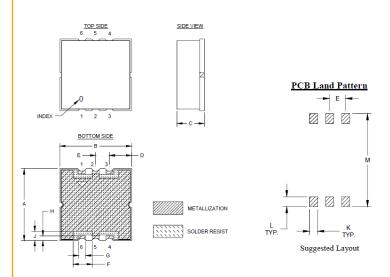


NOTES:

- TRACE WIDTH IS SHOWN FOR ROGERS (RO4350B) WITH DIELECTRIC THICKNESS .030"±.002". COPPER: 1/2 0Z. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
 BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.



OUTLINE DRAWING



OUTLINE DIMENSIONS (Inches)

Α	В	С	D	E	F	G	Н	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
									14/1
L	М								Wt.
.046	.434								grams
1.17	11.02								0.7

Note: Please refer to case style drawing for details

- 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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