

Bandpass Filter

BFCN-2555+

50Ω 2500 to 2610 MHz

Maximum Ratings

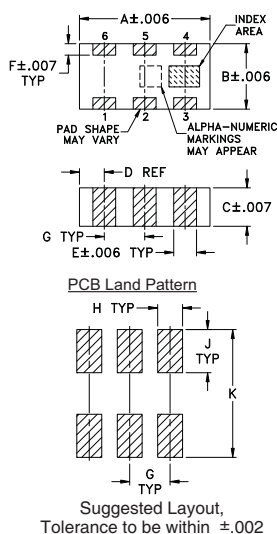
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	1.5W at 25°C

* Passband rating, derate linearly to 0.25W at 100°C ambient.
Permanent damage may occur if any of these limits are exceeded.

Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4,5,6

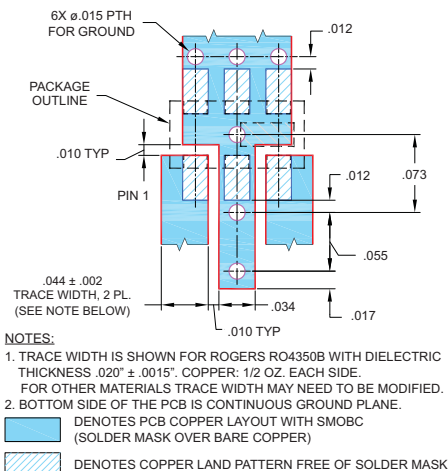
Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F
.126	.063	.035	.024	.022	.011
3.20	1.60	0.89	0.61	0.56	0.28
G	H	J	K	wt.	
.039	.024	.042	.123	grams	
0.99	0.61	1.07	3.12		.020

Demo Board MCL P/N: TB-285 Suggested PCB Layout (PL-158)



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-Circuit's 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-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp

Features

- Good VSWR, 1.6:1 typ @ passband
- Small size
- Temperature stable
- LTCC construction

Applications

- Harmonic rejection
- Transmitters / receivers



CASE STYLE: FV1206-1
PRICE: \$3.95 ea. QTY (20)

+RoHS Compliant

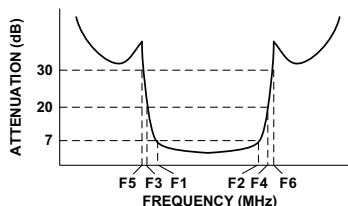
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Bandpass Filter Electrical Specifications¹ (T_{AMB} = 25°C)

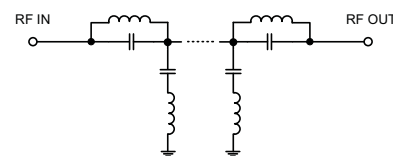
CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 7dB)	STOPBANDS (MHz)				VSWR (:1)		
		Loss > 20dB		Loss 30dB Typ		Passband		Stopband
F _c	F ₁ - F ₂	F ₃	F ₄	F ₅	F ₆	Typ.	Max.	Typ.
2555	2500 - 2610	1970	3200	2000	3250 - 5500	1.6	2.8	20

1. Measured on Mini-Circuits Characterization Test Board TB-285.

Typical Frequency Response



Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	81.46	289.53
200	82.15	124.09
500	62.32	75.53
1000	52.18	56.04
1970	37.86	23.49
2000	36.18	21.73
2200	20.62	9.58
2300	10.23	3.53
2350	6.16	1.78
2500	3.78	1.28
2555	3.73	1.35
2610	3.87	1.60
2850	7.85	1.33
2920	14.80	3.09
3000	24.74	6.51
3200	39.85	14.50
3250	40.88	15.67
3700	44.06	23.49
4500	39.38	28.03
5500	29.82	27.59

