Bandpass Filter

BFCN-2555+

50Ω 2500 to 2610 MHz

Maximum Ratings

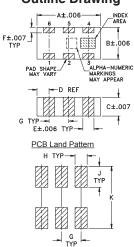
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	1.5W at 25°C

^{*} 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	11_
RF OUT	3
GROUND	2,4,5,6

Outline Drawing

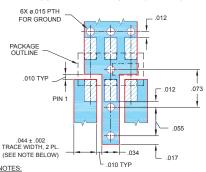


Suggested Layout, Tolerance to be within ±.002

Outline Dimensions (inch mm)

A .126 3.20	B .063 1.60	C .035 0.89	D .024 0.61	.022 0.56	F .011 0.28
G .039 0.99	H .024 0.61	J .042 1.07	K .123 3.12	0.00	wt. grams

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



1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC

1. IRACE WIDTH IS SHOWN FOR ROGERS ROASSIS WITH DIELECTRIC THICKNESS. 202' ± .0015'. COPPER: 12 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 SOLDER MASK

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

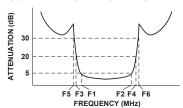
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Bandpass Filter Electrical Specifications^{1,2} (T_{AMB}= 25°C)

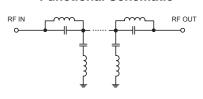
CENTER FREQ.	PASSBAND (MHz)	STOPBANDS (MHz)		VSWR (:1)		R (:1)		
(MHz)	(Loss < 7dB)	Loss >	> 20dB	Loss	30dB Typ	Pass	band	Stopband
Fc	F1 - F2	F3	F4	F5	F6	Тур.	Max.	Тур.
2555	2500 - 2610	1970	3200	2000	3250 - 5500	1.6	2.8	20

- 1. Measured on Mini-Circuits Characterization Test Board TB-285.
- 2. This filter is not intended for use as a DC Blocking circuit element. In Application where DC voltage is present at either input or output ports, blocking capacitors are required at the corresponding RF port.

Typical Frequency Response

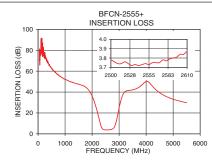


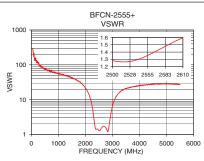
Functional Schematic



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	





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