

Bandpass Filter

SMT

BFCV-ED17122706

Important Note

This model has been designed, built and tested in our engineering department. Performance data represents model capability.
At present it is a non-catalog model. On request, we can supply a final specification sheet, part number and price/delivery information.



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CASE STYLE : JV1210C-2

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C							
Parameters		F#	Frequency (MHz)	Min.	Typ.	Max.	Units
Pass Band	Center Frequency				3600		MHz
	Insertion Loss	F1-F2	3300-3900		1.4		dB
	VSWR	F1-F2	3300-3900		1.8		:1
Stop Band, Lower	Insertion Loss	DC-F5	DC-2000		40		dB
		F5-F3	2000-2500		35		dB
	VSWR	DC-F3	DC-2500		35		:1
Stop Band, Upper	Insertion Loss	F4-F6	5000-8500		35		dB
		F6-F7	8500-13000		20		dB
	VSWR	F4-F7	5000-13000		20		:1

MAXIMUM RATINGS	
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W max

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

PIN CONNECTIONS	
RF IN	1
RF OUT	2
GROUND	3

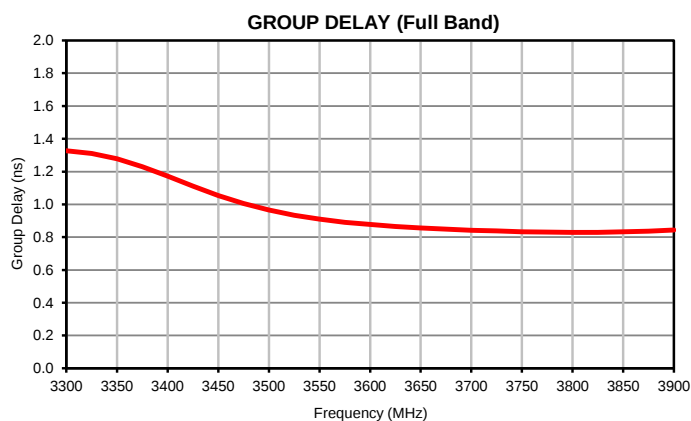
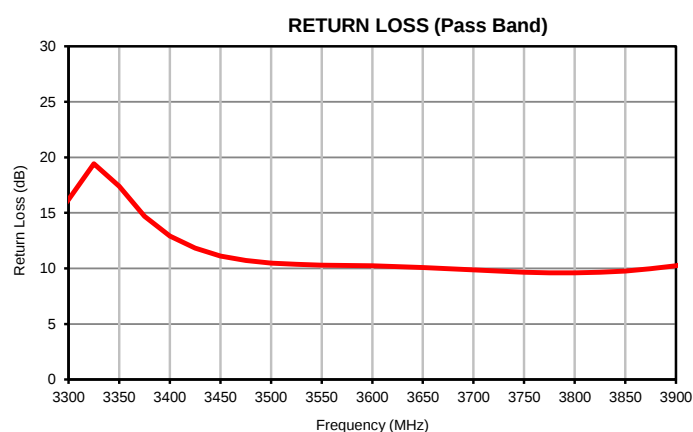
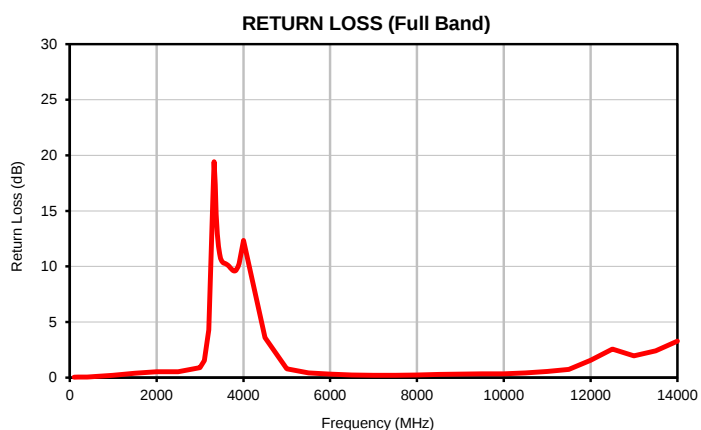
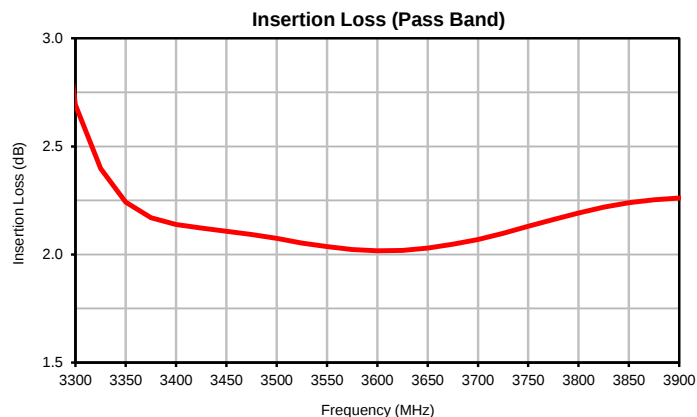
Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (ns)
100	53.27	0.04	3300	1.33
200	47.42	0.04	3325	1.31
300	44.05	0.05	3350	1.28
400	41.78	0.06	3375	1.23
500	40.17	0.08	3400	1.17
600	38.90	0.10	3425	1.11
700	37.99	0.12	3450	1.05
800	37.36	0.15	3475	1.00
900	36.95	0.18	3500	0.96
1000	36.78	0.21	3525	0.93
1500	40.03	0.40	3550	0.91
2000	47.24	0.53	3575	0.89
2500	35.63	0.54	3600	0.88
3000	21.67	0.89	3625	0.87
3100	13.54	1.53	3650	0.86
3200	6.43	4.29	3675	0.85
3300	2.69	16.19	3700	0.84
3325	2.40	19.42	3725	0.84
3350	2.24	17.39	3750	0.83
3375	2.17	14.70	3775	0.83
3400	2.14	12.93	3800	0.83
3425	2.12	11.82	3825	0.83
3450	2.11	11.13	3850	0.83
3475	2.09	10.72	3875	0.84
3500	2.07	10.48	3900	0.84
3525	2.05	10.37		
3550	2.04	10.30		
3575	2.02	10.27		
3600	2.02	10.23		
3625	2.02	10.17		
3650	2.03	10.09		
3675	2.05	9.98		
3700	2.07	9.87		
3725	2.10	9.76		
3750	2.13	9.67		
3775	2.16	9.61		
3800	2.19	9.60		
3825	2.22	9.65		
3850	2.24	9.77		
3875	2.25	9.96		
3900	2.26	10.25		
4000	2.25	12.35		
4500	9.23	3.60		
5000	26.84	0.78		
5500	43.03	0.43		
6000	46.24	0.31		
6500	40.58	0.25		
7000	38.86	0.22		
7500	39.14	0.22		
8000	40.04	0.24		
8500	39.28	0.29		
9000	35.74	0.33		
9500	32.22	0.33		
10000	29.91	0.35		
10500	27.31	0.42		
11000	24.85	0.55		
11500	22.90	0.73		
12000	22.37	1.56		
12500	24.88	2.57		
13000	14.38	1.95		
13500	13.11	2.41		
14000	11.92	3.28		

Ceramic Bandpass Filter

Typical Performance Curves

BFCV-ED17122705



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The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

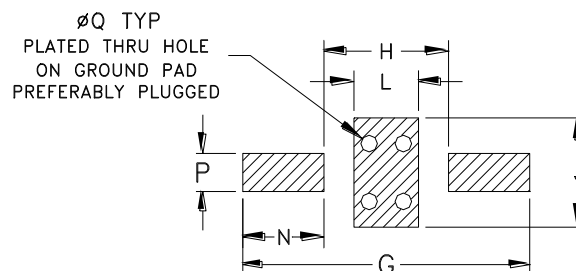
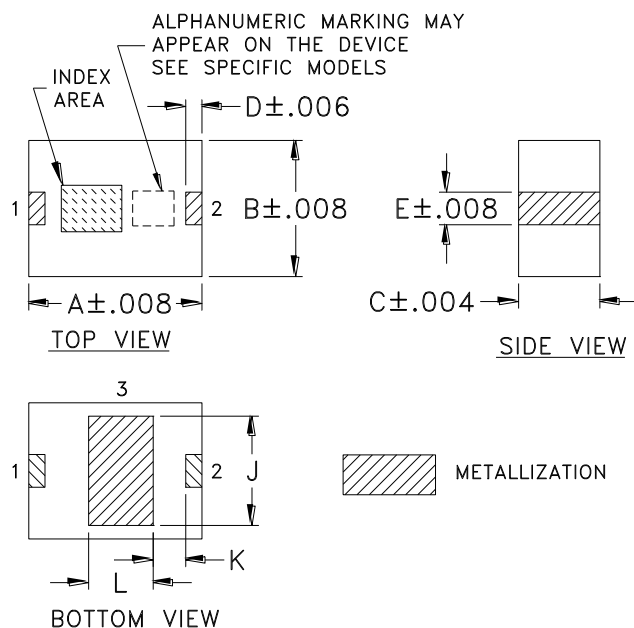
IF/RF MICROWAVE COMPONENTS

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Outline Dimensions

JV1210C-2

PCB Land Pattern



Suggested Layout,
Tolerance to be within $\pm .002$

CASE #	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	WT. GRAM
JV1210C-2	.126 (3.2)	.098 (2.5)	.059 (1.5)	.012 (0.3)	.024 (0.6)	-- --	.205 (5.2)	.087 (2.2)	.079 (2.0)	.028 (0.70)	.047 (1.2)	-- --	.059 (1.5)	.026 (0.65)	.012 (0.3)	.045

Dimensions are in inches (mm). Tolerances: 2 Pl. $\pm .01$; 3 Pl. $\pm .005$

Notes:

- Open style, ceramic base.
- Termination finish: **as shown below or indicated on Data Sheet.**
For RoHS Case Styles: Tin plate over Nickel plate. All models, (+) suffix.
For RoHS-5 Case Styles: Tin-Lead plate. All models, no (+) suffix.
- Pad tolerance is non-cumulative. Minimum spacing between each pad is .004.



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RF/IF MICROWAVE COMPONENTS



All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-40° to 85°C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Humidity	90 to 95% RH, 240 hours, 50°C	MIL-STD-202, Method 103, Condition A, Except 50°C and end-point electrical test done within 12 hours
Thermal Shock	-55° to 100°C, 100 cycles	MIL-STD-202, Method 107, Condition A-3, except +100°C
Solder Reflow Heat	Sn-Pb Eutetic Process: 225°C peak Pb-Free Process 245° - 250°C peak	J-STD-020, Table 4-1, 4-2 and 5-2, Figure 5-1
Solderability	10X Magnification	J-STD-002, 95% Coverage
Vibration (High Frequency)	20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D
Mechanical Shock	50g, 11 ms, 1/2-sine, 18 shocks: 3 each direction, each of 3 axes	MIL-STD-202, Method 213, Condition A
Marking Resistance to Solvents	Isopropyl alcohol + mineral spirits at 25°C; terpene defluxer at 25°C; distilled water + proylene glycol monomethyl ether + monoethanolamine at 63°C to 70°C	MIL-STD-202, Method 215