

Engineering Development Model

Band Pass Filter

BFCN-EDR9964/11

Surface Mount

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.



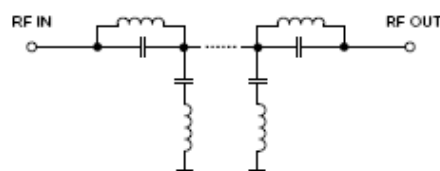
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CASE STYLE : FV1206

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter	Min.	Typ.	Max.	Units
Passband (Loss < 6dB)	6090		6250	MHz
Center Frequency		6170		MHz
Stopband Low Band (Loss > 20 dB)	2600		4600	MHz
Low Band (Loss > 40 dB)	DC		2600	MHz
High Band (Loss > 10 dB)	12600		15000	MHz
High Band (Loss > 15 dB)	6900		12600	MHz
Passband VSWR		2.2		(:1)
Stopband VSWR		18		(:1)

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

Functional Schematic



Ceramic Band Pass Filter

BFCN-EDR-9964-11

Typical Performance Data

FREQ. (MHz)	INSERTION LOSS (dB)	INPUT RETURN LOSS (dB)	OUTPUT RETURN LOSS (dB)
	@ +25° C	@ +25° C	@ +25° C
10	69.93	0.01	0.01
20	71.36	0.01	0.00
50	78.52	0.01	0.01
70	83.57	0.00	0.04
100	80.61	0.01	0.03
210	77.36	0.01	0.04
310	76.46	0.03	0.05
410	73.02	0.08	0.10
500	71.23	0.05	0.10
610	70.55	0.14	0.21
710	70.36	0.10	0.20
810	69.98	0.19	0.22
910	71.16	0.13	0.20
1000	71.97	0.15	0.03
1210	80.13	0.19	0.02
1310	92.24	0.34	0.19
1410	75.14	0.20	0.08
1510	69.65	0.34	0.22
1610	65.35	0.26	0.06
1710	62.09	0.28	0.17
1810	59.64	0.35	0.06
1910	57.17	0.24	0.10
2000	55.64	0.35	0.13
2110	53.40	0.24	0.10
2310	50.22	0.25	0.17
2410	48.75	0.24	0.07
2510	47.61	0.36	0.20
2810	43.75	0.18	0.24
2910	42.65	0.31	0.11
3000	41.84	0.30	0.26
3510	36.66	0.18	0.21
4000	32.44	0.26	0.22
4510	28.13	0.32	0.31
5000	23.25	0.45	0.35
5500	16.06	0.86	0.63
6000	5.43	4.33	4.90
6500	8.53	3.10	2.33
7000	20.63	0.96	0.59
7500	25.66	0.65	0.41
8000	26.80	0.54	0.40
8500	26.43	0.46	0.30
9000	25.80	0.47	0.40
9500	24.84	0.45	0.41
10000	23.80	0.44	0.40
10500	22.74	0.44	0.44
11000	21.67	0.46	0.44
12000	21.02	0.61	0.35
13000	19.42	0.69	0.37
14000	16.74	0.92	0.58
15000	14.13	1.11	1.06
16000	11.43	1.54	1.86
17000	10.23	2.72	2.16
18000	12.19	1.97	1.50
20000	7.78	3.94	3.24

REV. X1

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IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED RoHS compliant

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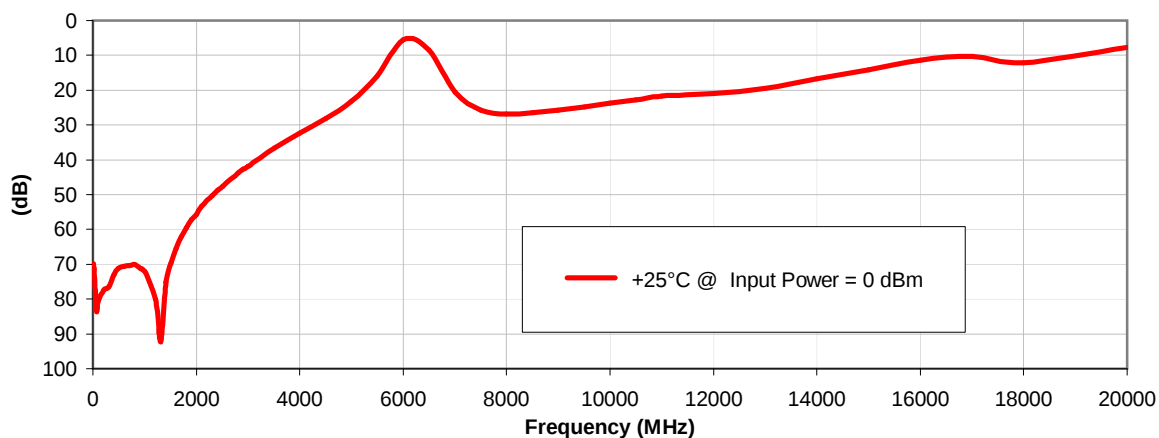


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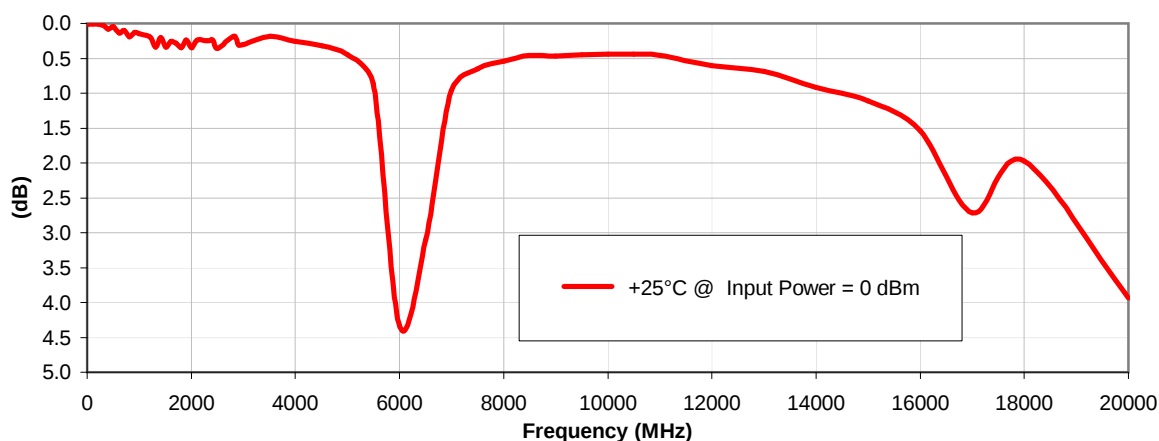


Typical Performance Curves

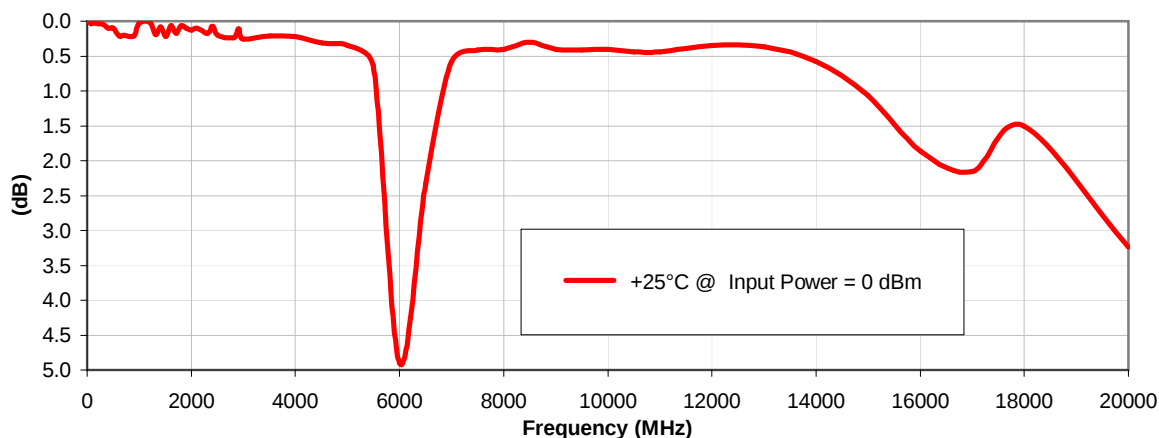
INSERTION LOSS vs. TEMPERATURE



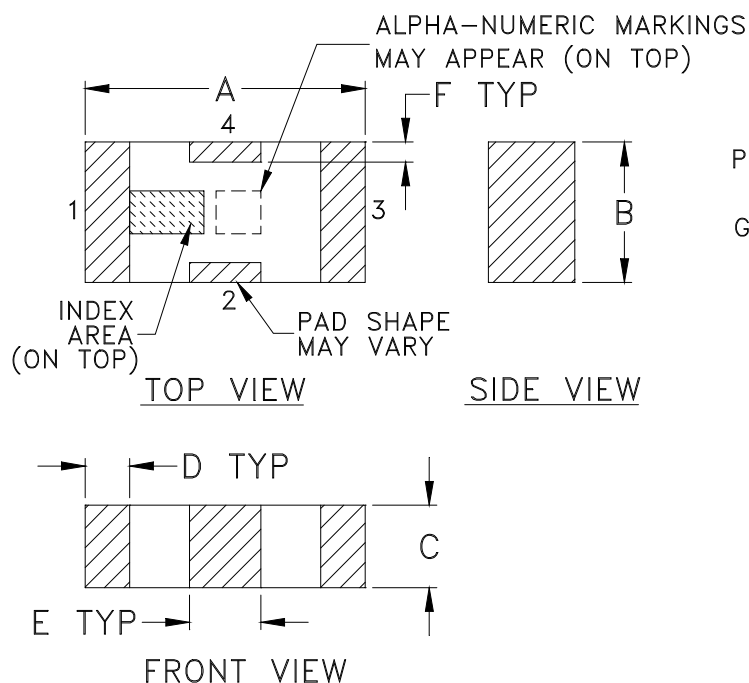
INPUT RETURN LOSS vs. TEMPERATURE



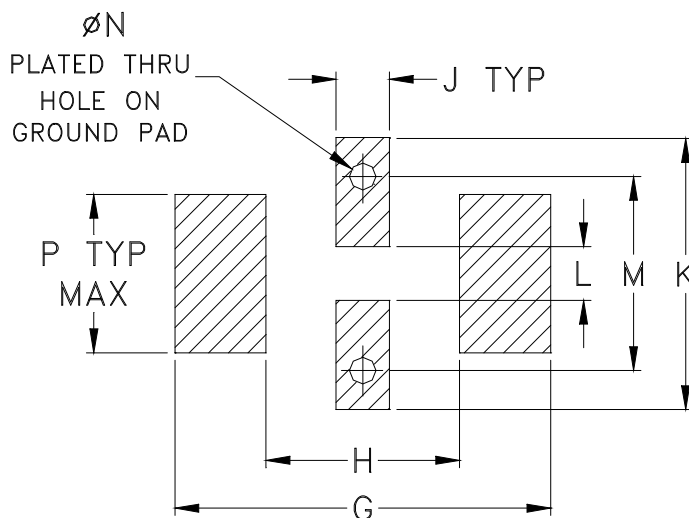
OUTPUT RETURN LOSS vs. TEMPERATURE



Outline Dimensions



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	WT. GRAM
FV1206	.126 (3.20)	.063 (1.60)	.037 (0.94)	.020 (0.51)	.032 (0.81)	.009 (0.23)	.169 (4.29)	.087 (2.21)	.024 (0.61)	.122 (3.10)	.024 (0.61)	.087 (2.21)	.012 (0.30)	.071 (1.80)	.020

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.



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RF/IF MICROWAVE COMPONENTS

Tape & Reel Packaging TR-F71



ILLUSTRATION 1

Tape Width, mm	Device Cavity Pitch, mm	Reel Size, inches	Devices per Reel	
8	4	7	Small quantity standards (see note)	20
				50
				100
				200
				500
				1000
			Standard	3000

Note: Please Consult individual model data sheet to determine device per reel availability.

Mini-Circuits carrier tape materials provide protection from ESD (Electro-Static Discharge) during handling and transportation. Tapes are static dissipative and comply with industry standards EIA-481/EIA-541.

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