

Engineering Development Model

Band Pass Filter

BFCN-EDR9964/12

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.



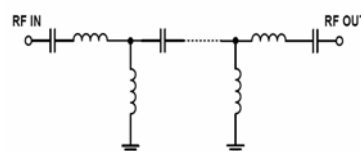
Please click "Back", and then click "Contact Us" for Applications support.

CASE STYLE : FV1206

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter	Min.	Typ.	Max.	Units
Passband (Loss < 6.5dB)	6470		6560	MHz
Center Frequency		6515		MHz
Stopband Low Band (Loss > 20 dB)	3000		4800	MHz
Low Band (Loss > 40 dB)	DC		3000	MHz
High Band (Loss > 10 dB)	9100		14000	MHz
High Band (Loss > 15 dB)	7600		9100	MHz
Passband VSWR		2.5		(: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-EDR9964/12

Typical Performance Data

FREQ. (MHz)	INSERTION LOSS (dB)	INPUT RETURN LOSS (dB)	OUTPUT RETURN LOSS (dB)
	@ +25° C	@ +25° C	@ +25° C
10	69.06	0.01	0.01
100	79.67	0.01	0.01
500	65.55	0.03	0.03
900	60.95	0.06	0.06
1000	60.35	0.07	0.06
1200	59.03	0.10	0.07
1400	58.16	0.11	0.08
1500	58.26	0.12	0.09
1600	59.18	0.12	0.10
1700	58.96	0.14	0.11
1800	58.29	0.15	0.11
1900	57.63	0.15	0.11
2000	57.69	0.17	0.11
2200	57.97	0.17	0.12
2400	52.91	0.19	0.17
2500	61.22	0.18	0.17
2600	65.15	0.19	0.17
2700	57.62	0.20	0.17
2800	59.69	0.21	0.17
2900	59.04	0.22	0.19
3000	52.06	0.24	0.21
3200	53.39	0.23	0.23
3300	55.42	0.23	0.22
3400	44.02	0.27	0.26
3500	44.63	0.25	0.25
3600	45.49	0.23	0.25
3700	45.59	0.24	0.25
3800	45.32	0.26	0.27
4000	41.85	0.30	0.31
5000	28.59	0.47	0.47
6000	12.70	1.50	1.66
6100	10.47	1.89	2.17
6200	8.47	2.58	3.03
6300	6.41	3.88	4.60
6350	5.64	4.83	5.64
6400	5.11	5.65	6.54
6450	4.6	6.76	7.41
6470	4.48	6.99	7.53
6500	4.42	7.30	7.50
6530	4.38	7.58	7.39
6540	4.38	7.66	7.35
6550	4.37	7.72	7.30
6560	4.37	7.70	7.21
7000	12.17	1.70	1.50
7600	22.84	0.90	0.88
8000	24.18	0.82	0.98
9000	20.31	1.18	1.15
9100	19.65	1.31	1.24
10000	18.62	0.97	1.45
11000	17.56	1.13	1.33
12000	16.73	0.97	1.33
13000	16.75	1.13	1.35
14000	16.66	1.14	1.30
15000	16.11	1.35	1.58

REV. X1

BFCN-EDR9964/12

101003

Page 1 of 1



Mini-Circuits®
IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED • RoHS compliant
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661

The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see

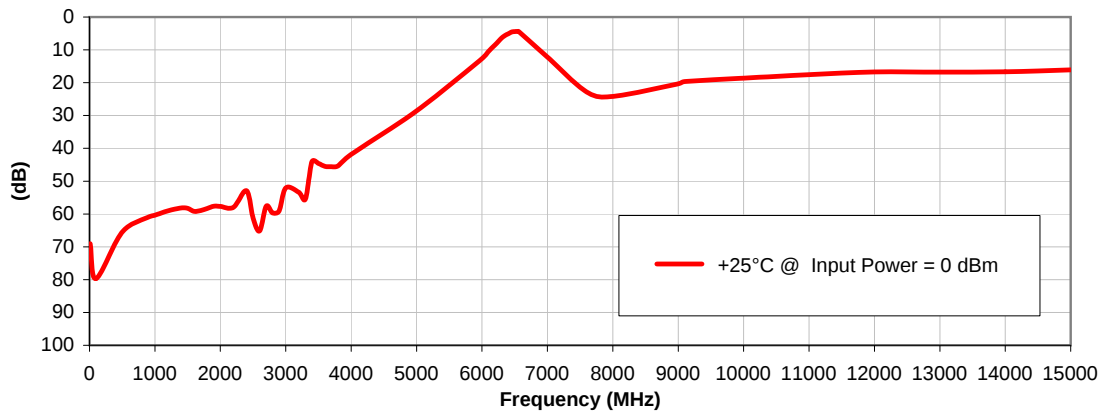


Ceramic Band Pass Filter

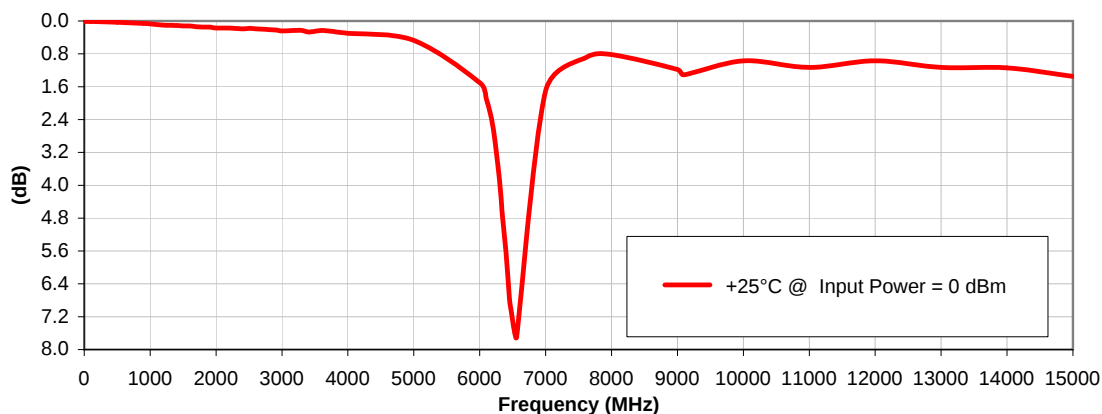
BFCN-EDR9964/12

Typical Performance Curves

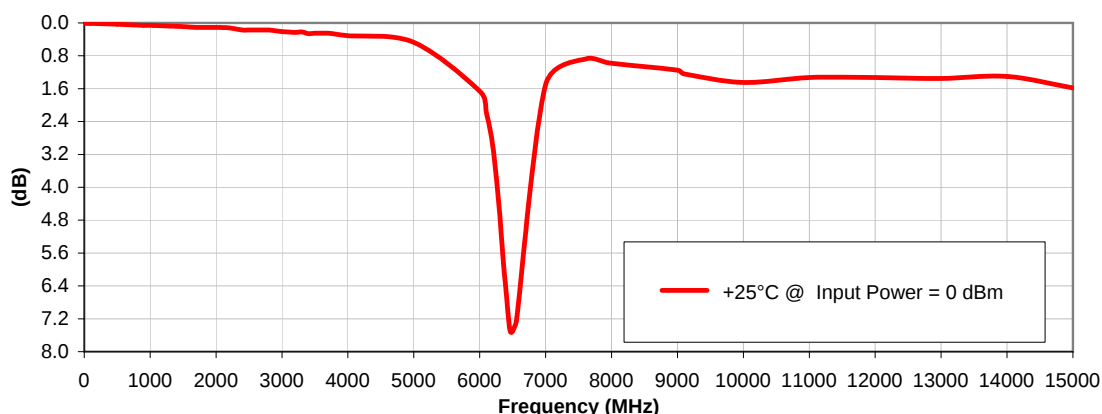
INSERTION LOSS vs. TEMPERATURE



INPUT RETURN LOSS vs. TEMPERATURE



OUTPUT RETURN LOSS vs. TEMPERATURE



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED • RoHS compliant
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



REV. X1
BFCN-EDR9964/12
101003
Page 1 of 1

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.



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



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

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.

Go to: www.minicircuits.com/pages/pdfs/tape.pdf



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



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

RF/IF MICROWAVE COMPONENTS