

Ceramic Band Pass Filter

BFCN-4440+

Typical Performance Data

FREQ. (MHz)	INSERTION LOSS (dB)			INPUT RETURN LOSS (dB)			OUTPUT RETURN LOSS (dB)		
	@ -55° C	@ +25° C	@ +100° C	@ -55° C	@ +25° C	@ +100° C	@ -55° C	@ +25° C	@ +100° C
20	63.91	61.04	67.66	0.02	0.02	0.02	0.03	0.01	0.01
100	88.20	85.75	76.51	0.01	0.01	0.00	0.01	0.01	0.01
200	75.28	76.82	75.54	0.02	0.03	0.03	0.03	0.03	0.05
300	74.76	75.11	74.08	0.03	0.03	0.02	0.06	0.05	0.04
400	79.44	82.59	86.86	0.06	0.08	0.09	0.07	0.09	0.10
500	75.32	73.03	75.14	0.03	0.02	0.01	0.08	0.06	0.05
600	64.50	63.94	63.67	0.06	0.09	0.11	0.04	0.08	0.10
700	58.13	57.92	57.92	0.03	0.06	0.09	0.02	0.05	0.07
800	53.65	53.12	53.07	0.05	0.08	0.11	0.03	0.01	0.03
900	49.42	49.27	49.14	0.02	0.06	0.08	0.10	0.17	0.19
1000	45.91	45.75	45.60	0.03	0.06	0.09	0.06	0.01	0.00
1400	35.46	35.27	35.24	0.03	0.02	0.05	0.02	0.04	0.06
1500	33.61	33.26	33.25	0.17	0.18	0.23	0.09	0.16	0.19
1600	31.22	31.22	31.05	0.15	0.14	0.19	0.19	0.28	0.31
1700	29.12	29.12	28.95	0.18	0.17	0.22	0.01	0.06	0.07
1800	27.84	27.77	27.68	0.34	0.37	0.42	0.31	0.40	0.42
2000	24.19	23.86	23.81	0.30	0.30	0.36	0.17	0.26	0.29
2300	19.24	19.04	19.00	0.39	0.42	0.46	0.27	0.36	0.40
2400	17.65	17.56	17.35	0.45	0.47	0.53	0.34	0.43	0.47
2500	15.93	15.98	15.66	0.49	0.53	0.60	0.40	0.49	0.55
2600	14.43	14.53	14.23	0.61	0.61	0.72	0.53	0.57	0.66
2700	12.98	13.15	12.77	0.62	0.74	0.81	0.56	0.72	0.76
2800	11.63	11.48	11.33	0.74	0.87	0.98	0.69	0.85	0.94
2900	10.32	10.10	9.94	0.87	1.05	1.19	0.85	1.03	1.16
3000	8.94	8.73	8.61	1.09	1.29	1.50	1.09	1.28	1.47
3300	5.08	5.06	4.98	2.44	2.79	3.03	2.44	2.75	3.03
3400	4.08	4.06	4.17	3.20	3.68	3.86	3.16	3.61	3.87
3500	3.13	3.17	3.29	4.32	4.71	4.98	4.20	4.62	4.96
3600	2.42	2.53	2.61	5.61	6.07	6.32	5.41	5.94	6.24
3700	1.94	2.00	2.12	7.41	7.58	8.02	7.05	7.40	7.81
3800	1.51	1.62	1.73	9.11	9.44	9.84	8.60	9.18	9.52
4000	0.98	1.14	1.29	14.12	13.86	13.81	12.77	13.15	13.11
4200	0.79	0.95	1.14	19.83	18.92	18.47	17.62	17.57	17.49
4300	0.84	0.93	1.08	20.71	21.27	20.64	20.07	19.77	19.14
4400	0.76	0.92	1.12	21.24	23.24	21.88	20.29	21.57	21.06
4440	0.75	0.92	1.10	20.99	23.54	22.70	20.27	21.93	21.36
4500	0.80	0.95	1.10	20.28	23.37	22.80	20.73	22.33	21.35
4600	0.78	0.95	1.13	20.84	22.40	21.65	20.49	20.95	20.01
4700	0.80	1.00	1.20	21.80	20.43	19.37	20.51	18.96	18.05
4800	0.84	1.08	1.31	20.78	17.91	17.02	18.33	16.55	15.79
5000	1.18	1.46	1.78	13.74	12.46	11.60	12.29	11.60	10.86
5400	4.20	4.54	5.05	4.06	4.09	3.97	3.71	3.88	3.77
6000	15.77	16.26	17.09	0.91	0.95	1.13	0.83	0.92	1.05
6650	28.26	30.49	29.98	0.69	0.78	1.00	0.47	0.68	0.91
7000	35.12	29.32	25.96	0.73	0.86	1.16	0.38	0.78	1.12
8000	24.60	25.89	27.31	1.17	0.92	1.18	0.58	0.75	1.11
9000	20.92	21.67	22.76	1.05	0.93	1.04	0.78	1.02	1.28
10000	20.88	22.63	21.79	0.75	0.81	1.07	1.27	1.07	1.13
11000	22.96	22.40	22.69	2.06	1.06	1.12	0.77	0.98	1.12
12000	25.60	28.74	29.44	1.42	1.10	1.30	0.89	1.17	1.15
13000	12.62	13.04	12.67	1.67	2.15	2.27	1.15	1.54	1.74
14000	8.06	8.48	8.80	2.76	3.00	3.54	2.53	3.82	3.52

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-Circuits' applicable established test performance criteria and measurement instructions.
- C. The parts covered by this specification document are subject to Mini-Circuits' 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-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp



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Typical Performance Data

FREQ. (MHz)	GROUP DELAY (psec)		
	@ -55° C	@ +25° C	@ +100° C
4200	471.74	466.03	460.17
4205	530.13	481.17	501.08
4210	512.19	443.42	508.60
4215	530.26	480.38	425.57
4220	496.08	488.50	409.27
4230	493.52	472.31	442.63
4240	514.79	477.30	469.46
4250	505.39	481.43	529.18
4260	530.63	469.47	433.81
4270	517.32	476.14	453.48
4280	496.87	454.41	457.30
4290	504.94	468.75	457.88
4300	293.69	461.24	491.01
4310	539.14	503.18	445.48
4320	478.91	480.59	463.08
4330	519.39	473.83	489.46
4340	377.63	452.61	448.04
4350	505.42	464.27	507.95
4360	412.12	474.20	376.13
4370	471.89	464.97	465.91
4380	517.64	472.59	440.92
4390	507.38	487.13	486.08
4400	497.30	496.03	446.76
4420	492.38	473.83	537.87
4430	481.09	470.20	407.04
4440	523.98	480.09	479.71
4450	431.87	485.21	408.51
4460	568.98	474.58	521.31
4470	485.63	465.53	459.66
4480	470.69	454.93	456.74
4490	492.23	490.70	465.22
4500	380.87	465.37	451.40
4510	498.94	473.67	480.19
4520	494.27	491.43	457.35
4530	505.73	451.06	533.66
4540	510.77	468.07	490.36
4550	441.70	483.93	461.37
4560	449.50	475.91	497.33
4570	531.65	478.94	491.95
4580	449.69	464.17	482.53
4590	514.41	485.03	447.26
4600	499.24	462.12	520.19
4610	510.75	476.96	475.91
4620	498.81	473.49	443.28
4630	470.07	493.33	484.45
4640	498.53	482.56	492.58
4650	527.90	505.71	488.21
4660	460.61	493.89	514.02
4670	533.69	498.70	492.03
4680	508.44	482.22	504.69
4690	490.07	492.22	438.45
4700	476.81	483.22	473.94

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