

Surface Mount Band Pass Filter

BPF-B503+

Typical Performance Data

FREQ. (MHz)	INSERTION LOSS (dB)			INPUT RETURN LOSS (dB)			OUTPUT RETURNLOSS (dB)		
	@ -40° C	@ +25° C	@ +85° C	@ -40° C	@ +25° C	@ +85° C	@ -40° C	@ +25° C	@ +85° C
0.5	109.89	97.00	90.47	0.07	0.10	0.12	0.06	0.09	0.12
10	81.76	79.21	80.35	0.13	0.15	0.18	0.12	0.15	0.18
100	67.55	67.04	66.97	0.20	0.24	0.25	0.18	0.24	0.27
200	71.30	72.21	72.34	0.09	0.13	0.15	0.08	0.14	0.16
300	92.79	90.87	94.64	0.07	0.11	0.13	0.03	0.11	0.13
400	53.27	52.94	52.52	0.14	0.21	0.25	0.11	0.22	0.26
410	49.11	48.66	48.15	0.17	0.25	0.29	0.13	0.26	0.31
420	44.60	43.95	43.40	0.21	0.31	0.36	0.18	0.32	0.38
430	39.44	38.72	38.05	0.28	0.40	0.47	0.25	0.42	0.50
440	33.61	32.76	31.95	0.39	0.55	0.65	0.36	0.57	0.69
450	26.86	25.83	24.84	0.59	0.83	1.00	0.58	0.87	1.06
455	23.04	21.91	20.82	0.77	1.08	1.33	0.77	1.15	1.41
460	18.86	17.64	16.46	1.07	1.51	1.91	1.10	1.62	2.04
465	14.32	13.08	11.90	1.63	2.36	3.09	1.72	2.56	3.35
470	9.61	8.58	7.68	2.91	4.32	5.83	3.13	4.77	6.49
480	3.25	3.58	3.77	13.49	16.83	18.25	16.96	28.63	26.71
490	2.37	2.95	3.30	17.57	17.66	17.92	17.39	17.24	17.21
495	2.31	2.90	3.27	17.01	17.47	17.69	16.58	17.27	17.70
499	2.30	2.91	3.29	16.42	16.64	16.63	16.42	17.11	17.47
500	2.31	2.92	3.30	16.19	16.35	16.31	16.32	16.95	17.26
503	2.34	2.96	3.37	15.31	15.37	15.36	15.79	16.20	16.42
505	2.37	3.00	3.42	14.68	14.76	14.88	15.28	15.61	15.85
510	2.47	3.13	3.57	13.48	14.04	14.94	14.02	14.49	15.13
520	2.73	3.78	4.76	20.29	26.12	17.53	15.84	15.08	12.78
530	6.06	8.59	10.69	6.30	4.94	4.11	5.50	4.41	3.75
540	14.18	16.64	18.58	1.81	1.83	1.78	1.65	1.72	1.70
550	21.70	23.75	25.39	0.94	1.06	1.11	0.86	1.03	1.08
560	27.91	29.68	31.11	0.62	0.74	0.80	0.57	0.74	0.80
565	30.63	32.31	33.65	0.53	0.65	0.71	0.48	0.65	0.71
570	33.17	34.75	36.04	0.46	0.57	0.63	0.42	0.58	0.64
580	37.72	39.18	40.36	0.37	0.47	0.53	0.33	0.48	0.54
590	41.76	43.15	44.22	0.31	0.40	0.45	0.26	0.41	0.48
600	45.42	46.70	47.71	0.26	0.35	0.40	0.22	0.37	0.42
610	48.75	50.00	51.05	0.23	0.32	0.36	0.19	0.33	0.39
670	64.57	66.43	66.61	0.14	0.22	0.26	0.10	0.24	0.29
700	72.11	72.84	73.59	0.13	0.21	0.24	0.08	0.22	0.27
800	96.14	93.24	89.94	0.12	0.19	0.22	0.06	0.21	0.26
900	89.71	86.21	84.54	0.12	0.19	0.22	0.07	0.21	0.26
1000	82.78	79.69	81.76	0.13	0.21	0.24	0.08	0.23	0.28
1100	80.06	87.61	78.43	0.14	0.22	0.25	0.10	0.25	0.29
1200	73.95	81.14	73.55	0.15	0.23	0.26	0.11	0.25	0.30
1300	72.84	74.71	73.87	0.16	0.24	0.28	0.11	0.27	0.31
1400	74.48	70.12	70.56	0.16	0.24	0.29	0.12	0.27	0.33
1500	76.68	65.15	74.56	0.16	0.26	0.30	0.12	0.28	0.34
1600	75.43	74.03	61.43	0.16	0.25	0.32	0.11	0.28	0.35
1700	72.35	63.90	71.96	0.15	0.26	0.32	0.09	0.28	0.37
1800	68.25	69.74	62.88	0.15	0.25	0.33	0.07	0.28	0.38
1900	81.00	61.75	60.03	0.14	0.25	0.34	0.05	0.28	0.40
2000	66.18	59.70	70.97	0.13	0.25	0.34	0.03	0.27	0.40
2100	57.02	57.70	57.93	0.12	0.25	0.35	0.02	0.27	0.42
2200	52.23	63.66	53.50	0.12	0.25	0.35	0.01	0.27	0.43
2300	59.00	54.67	60.26	0.11	0.26	0.37	0.01	0.28	0.43
2400	81.23	51.78	57.32	0.11	0.27	0.37	0.00	0.29	0.45
2500	49.26	49.80	50.06	0.16	0.29	0.42	0.00	0.28	0.45
2600	47.22	50.75	49.16	0.13	0.29	0.39	0.00	0.28	0.45

REV. X1

BPF-B503+

091126

Page 1 of 2



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



Surface Mount Band Pass Filter

BPF-B503+

Typical Performance Data

FREQ. (MHz)	GROUP DELAY (nsec)		
	@ -40° C	@ +25° C	@ +85° C
495	16.98	16.75	16.63
496	16.81	16.64	16.54
497	16.68	16.53	16.47
498	16.56	16.45	16.42
499	16.44	16.38	16.38
500	16.37	16.34	16.36
501	16.30	16.28	16.34
502	16.24	16.26	16.35
503	16.20	16.25	16.37
504	16.16	16.24	16.41
505	16.13	16.26	16.48
506	16.13	16.30	16.57
507	16.13	16.35	16.69
508	16.17	16.46	16.86
509	16.23	16.57	17.05
510	16.30	16.72	17.29

REV. X1
BPF-B503+
091126
Page 2 of 2



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

