

Engineering Development Model

BandPass Filter

SXBP-EDU1035

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.

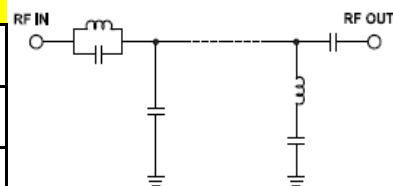
CASE STYLE : HF1317

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C

Parameter	Min.	Typ.	Max.	Units
Passband (Loss < 2 dB)	130		170	MHz
Centre frequency		150		MHz
Low Band (Loss > 40 dB)	DC		82	MHz
Low Band (Loss > 20 dB)	82		90	MHz
High Band (Loss > 20 dB)	220		236	MHz
High Band (Loss > 40 dB)	236		260	MHz
Passband VSWR		1.2		(:1)
Stopband VSWR		20		(:1)

Functional Schematic

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



PIN CONNECTIONS

Input	1
Output	8
Not Connected	-
Case Ground	2, 3, 4, 5, 6, 7



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



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RF/IF MICROWAVE COMPONENTS



REV. X1
JCBP-EDU1035
URJ
080515
Page 1 of 1

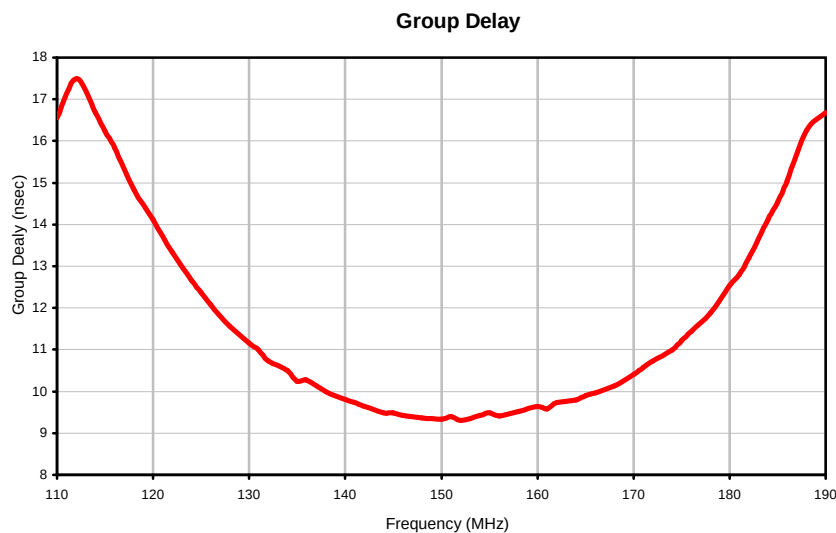
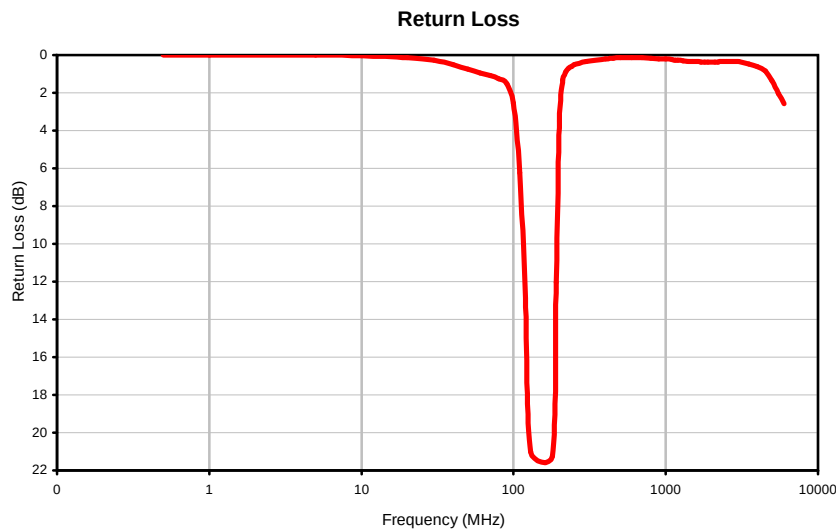
Surface Mount Band Pass Filter

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Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
0.5	60.36	0.01	110.0	16.56
1.0	57.34	0.01	112.0	17.50
5.0	38.74	0.01	114.0	16.68
10.0	32.79	0.03	115.0	16.24
20.0	27.39	0.12	116.0	15.83
30.0	25.06	0.29	118.0	14.84
40.0	24.64	0.51	120.0	14.12
50.0	26.01	0.74	122.0	13.34
60.0	29.89	0.94	124.0	12.66
70.0	39.91	1.09	125.0	12.37
80.0	61.71	1.25	126.0	12.08
90.0	26.58	1.51	128.0	11.56
100.0	12.32	2.54	130.0	11.15
110.0	4.55	6.23	131.0	10.99
120.0	1.95	12.87	132.0	10.73
130.0	1.32	21.03	134.0	10.50
180.0	1.70	21.24	135.0	10.24
190.0	3.17	12.02	136.0	10.27
200.0	8.88	3.49	138.0	10.00
210.0	18.19	1.34	140.0	9.81
220.0	28.58	0.88	141.0	9.73
230.0	40.02	0.70	142.0	9.64
240.0	51.78	0.60	144.0	9.48
250.0	53.76	0.52	145.0	9.48
300.0	40.24	0.33	146.0	9.42
400.0	41.58	0.19	148.0	9.37
450.0	44.17	0.16	150.0	9.33
500.0	46.97	0.14	151.0	9.39
600.0	53.16	0.13	152.0	9.30
700.0	60.10	0.14	154.0	9.42
800.0	70.01	0.16	155.0	9.49
900.0	86.00	0.19	156.0	9.41
1000.0	75.03	0.22	158.0	9.51
1100.0	67.26	0.24	160.0	9.65
1150.0	62.98	0.26	161.0	9.58
1200.0	55.77	0.28	162.0	9.74
1300.0	44.93	0.32	164.0	9.80
1400.0	47.76	0.34	165.0	9.91
1500.0	57.55	0.34	166.0	9.97
1600.0	59.28	0.35	168.0	10.14
1700.0	58.91	0.36	170.0	10.40
1800.0	57.03	0.37	171.0	10.58
1900.0	55.61	0.37	172.0	10.73
2100.0	55.27	0.37	174.0	10.98
2200.0	52.73	0.36	175.0	11.22
2300.0	52.02	0.35	176.0	11.44
2400.0	50.13	0.34	178.0	11.88
2500.0	48.89	0.33	180.0	12.54
3000.0	41.54	0.35	181.0	12.80
3500.0	38.92	0.49	182.0	13.20
4000.0	46.53	0.62	184.0	14.12
4500.0	42.78	0.85	185.0	14.54
5000.0	36.50	1.35	186.0	15.05
5500.0	29.89	2.04	188.0	16.25
6000.0	29.14	2.57	190.0	16.67

Typical Performance Curves





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	-65° to 150° C Ambient Environment	Individual Model Data Sheet
Autoclave	15 psig, 100% RH, 121°C, 96 hours	JESD22-A102-C, Condition C
Temperature Cycling	-65° to 150°C, 100 cycles	JESD22-A104
Temperature Humidity	85°C/ 85% RH, 168 hours	JESD22-113
Solder Reflow Heat	Sn-Pb Eutetic Process: 240°C peak Pb-Free Process: 260°C peak	J-STD-020, Table 4-1, 4-2 and 5-2; Figure 5-1
Moisture Sensitivity: Level 1	Bake at 125°C for 24 hours Soak at 85°C/85% RH for 168 hours, Reflow 3 cycles at 240°C peak (Non-RoHS) or 260°C (RoHS)	J-STD-020
Solderability	10X magnification, 95% coverage	JESD22-B102, Method 1: Dip and Look Test
Mechanical Shock	50g, 11 ms, 1/2-sine, 18 shocks: 3 each direction, each of 3 axes	MIL-STD-202, Method 213, Condition A
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