

High Pass Filter

SMT

JCHF-ED13026/1

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.



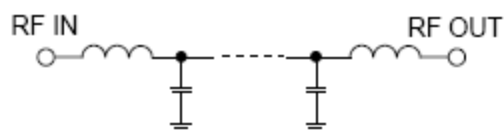
Please click "Back", and then click "Contact Us" for Applications support.

CASE STYLE : BK377

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter	Min.	Typ.	Max.	Units
Passband (Loss < 1.5 dB)	100		500	MHz
fco Nom. (Loss 3 dB)	--	95	--	MHz
Stopband F 20 (loss, dB)	--	70-78	--	MHz
F 40 (loss, dB)	--	DC-70	--	MHz
Passband VSWR	--	1.5	--	(:1)
Stopband VSWR	--	20	--	(:1)

MAXIMUM RATINGS	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C

Functional Schematic



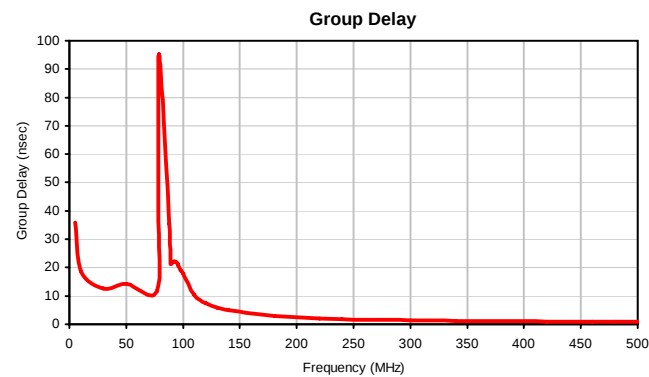
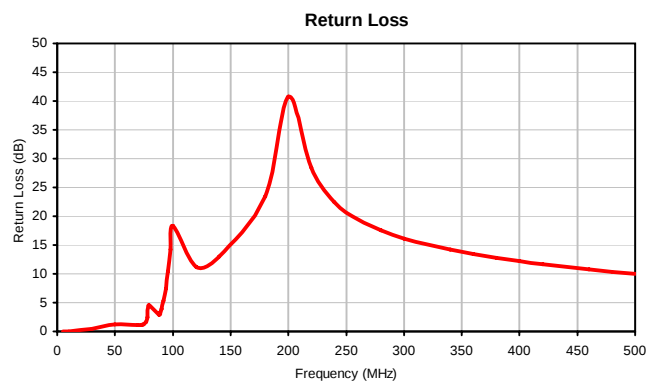
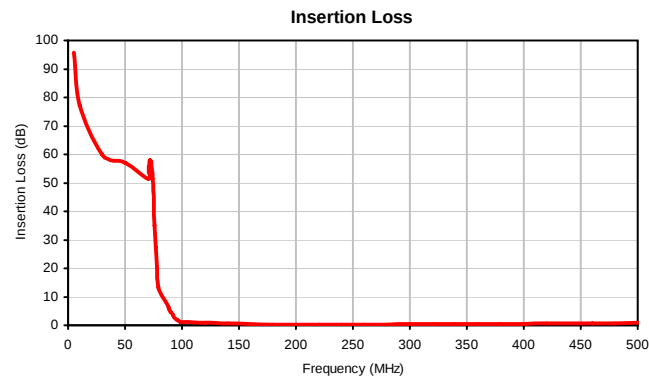
PIN CONNECTIONS	
RF IN	1
RF OUT	8
GROUND	2,3,4,5,6,7,9,10,11,12,13,14

Surface Mount High Pass Filter JCHF-ED13026/1

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
5.0	95.68	0.01	5.0	35.92
10.0	77.23	0.03	10.0	18.78
30.0	60.04	0.42	30.0	12.65
50.0	57.13	1.23	50.0	14.12
70.0	51.40	1.09	77.0	11.68
71.0	54.80	1.10	78.0	41.62
72.0	57.99	1.11	79.0	95.15
73.0	57.33	1.14	88.0	35.53
74.0	51.36	1.19	89.0	21.32
75.0	42.98	1.26	90.0	21.70
76.0	34.98	1.41	91.0	21.93
77.0	27.50	1.70	92.0	22.14
78.0	20.16	2.44	93.0	22.04
79.0	13.21	4.60	94.0	21.86
88.0	6.31	2.84	95.0	21.39
89.0	5.54	3.28	96.0	20.66
90.0	4.80	3.84	97.0	19.89
92.0	3.50	5.34	98.0	18.95
94.0	2.48	7.48	100.0	17.87
96.0	1.76	10.39	110.0	10.43
98.0	1.31	14.18	120.0	7.35
100.0	1.06	18.31	130.0	5.85
120.0	0.85	11.17	140.0	5.01
140.0	0.61	13.03	160.0	3.79
180.0	0.32	23.47	180.0	3.01
200.0	0.27	40.82	200.0	2.49
220.0	0.27	28.40	220.0	2.12
240.0	0.28	22.42	240.0	1.85
260.0	0.30	19.43	260.0	1.66
280.0	0.33	17.52	280.0	1.50
300.0	0.36	16.14	300.0	1.38
320.0	0.40	15.07	320.0	1.28
340.0	0.43	14.18	340.0	1.21
360.0	0.47	13.42	360.0	1.14
380.0	0.52	12.76	380.0	1.08
400.0	0.56	12.18	400.0	1.04
420.0	0.60	11.67	420.0	1.01
440.0	0.65	11.20	440.0	0.97
460.0	0.70	10.76	460.0	0.94
480.0	0.75	10.36	480.0	0.91
500.0	0.80	9.98	500.0	0.90

Typical Performance Curves



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	WT. GRAM
BK377	.505 (12.83)	.800 (20.32)	-- --	.100 (2.54)	.250 (6.35)	.100 (2.54)	.100 (2.54)	.047 (1.19)	.065 (1.65)	.065 (1.65)	.525 (13.34)	2.0 MAX.

Dimensions are in inches (mm). Tolerances: 2Pl. $\pm .01$; 3Pl. $\pm .005$

Notes:

- Case material: Copper Nickel alloy.
- Base material: Printed wiring laminate.
- Termination finish:
 - 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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Tape & Reel Packaging TR-F107

DEVICE ORIENTATION IN T&R



Tape Width, mm	Device Cavity Pitch, mm	Reel Size, inches	Devices per Reel	
32	20	7	Small quantity standards (see note)	10
				20
				50
				100
		13	Standard	200

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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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	-55° to 100° C Ambient Environment	Individual Model Data Sheet
HAST	130°C, 85% RH, 96 hours	JESD22-A110
Humidity	90 to 95% RH, 240 hours, 50°C	MIL-STD-202, Method 103, Condition A, Except 50°C and end-point electrical test done within 12 hours
Thermal Shock	-55° to 100°C, 100 cycles	MIL-STD-202, Method 107, Condition A-3, except +100°C
Solder Reflow Heat	Sn-Pb Eutectic Process: 225°C peak Pb-Free Process, 245°C peak	J-STD-020, Table 4-1, 4-2 and 5-2, Figure 5-1
Solderability	10X Magnification	J-STD-002, Para 4.2.5, Test S, 95% Coverage
Vibration (High Frequency)	20g peak, 20-2000 Hz, 4 times in each of three axes (total 12)	MIL-STD-883, Method 2007.3, Condition A
Mechanical Shock	50g, 11 ms, 1/2-sine, 18 shocks: 3 each direction, each of 3 axes	MIL-STD-202, Method 213, Condition A
Marking Resistance to Solvents	Isopropyl alcohol + mineral spirits at 25°C; terpene defluxer at 25°C; distilled water + proylene glycol monomethyl ether + monoethanolamine at 63°C to 70°C	MIL-STD-202, Method 215