

High Pass Filter

Surface Mount

SXHP-EDU1986

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.



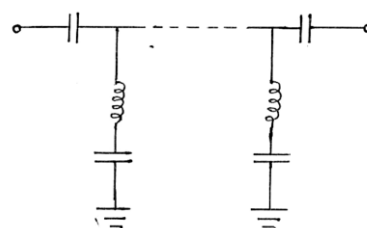
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CASE STYLE : HF1139

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C

Parameter	Min.	Typ.	Max.	Units
Passband (Loss < 1 dB)	20		30	MHz
Insertion loss 3 dB		17		MHz
Stopband (Loss > 40 dB)	DC	12.5		MHz
(Loss > 20 dB)	12.5	13.60		MHz
Passband VSWR		1.3		(: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

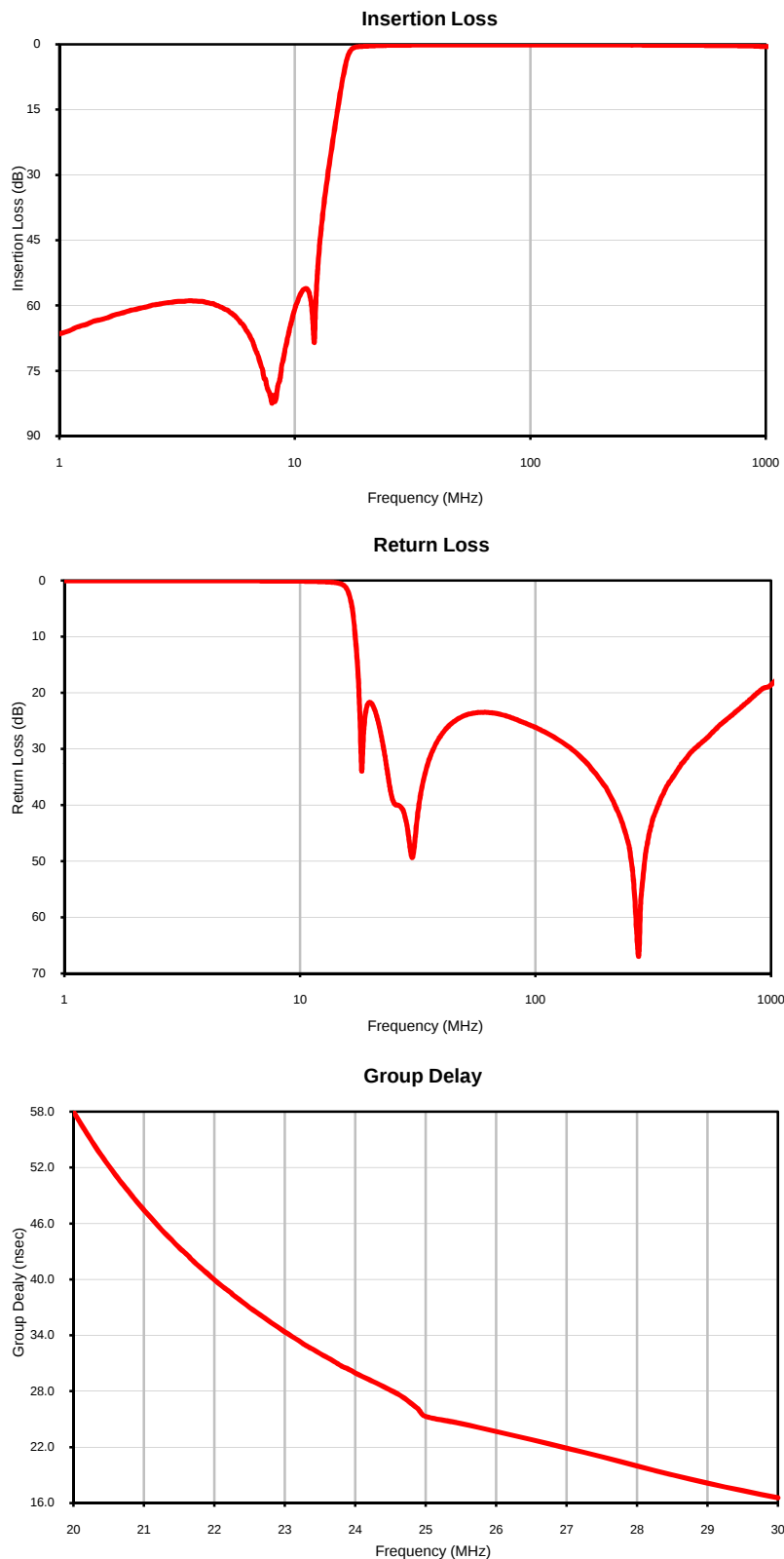
PIN CONNECTIONS

Input	1
Output	8
Ground	2,3,4,5,6,7

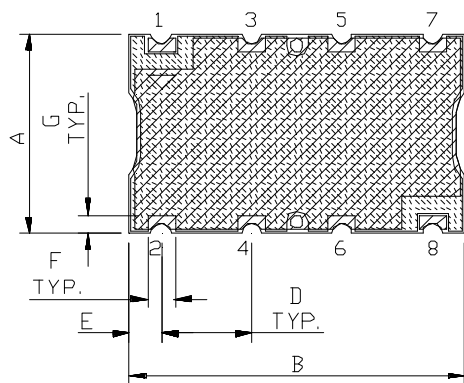
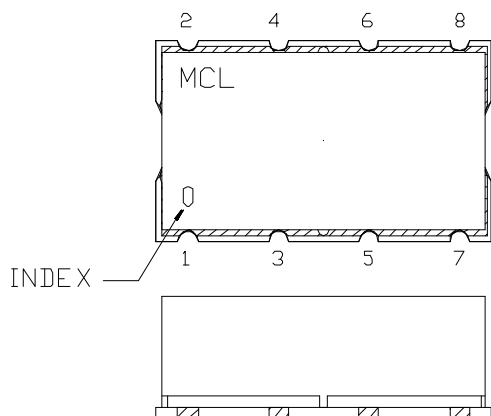
Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
0.30	75.19	0.04	20.0	57.99
1.00	66.51	0.04	20.2	55.55
5.00	60.75	0.04	20.5	52.20
9.20	68.86	0.09	21.0	47.44
10.00	60.76	0.10	21.5	43.42
12.50	51.62	0.20	22.0	39.96
13.60	32.51	0.29	22.5	36.98
13.80	30.01	0.31	23.0	34.37
14.60	20.98	0.46	23.5	32.04
16.60	3.61	4.47	24.0	29.96
16.80	2.69	5.92	24.2	29.23
17.00	2.00	7.73	24.4	28.50
20.00	0.43	21.73	24.5	28.12
25.00	0.24	39.46	24.8	26.65
30.00	0.19	49.35	25.0	25.29
50.00	0.16	24.04	25.5	24.54
100.00	0.15	26.12	26.0	23.68
200.00	0.16	36.97	26.5	22.81
350.00	0.20	37.90	27.0	21.89
500.00	0.24	29.11	27.5	20.97
650.00	0.29	24.70	28.5	19.03
850.00	0.37	20.51	29.0	18.14
900.00	0.41	19.59	29.5	17.33
1000.00	0.48	18.60	30.0	16.57

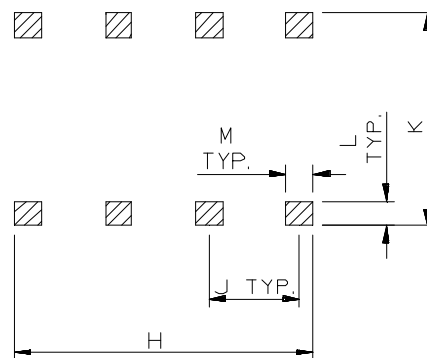
Typical Performance Curves



Outline Dimensions



PCB Land Pattern



CASE #	A	B	C	D	E	F	G	H	J	K	L	M	WT. GRAMS
HF1139	.44 (11.18)	.74 (18.80)	.27 (6.86)	.200 (5.08)	.07 (1.78)	.060 (1.52)	.040 (1.02)	.660 (16.76)	.200 (5.08)	.470 (11.94)	.055 (1.40)	.060 (1.52)	3.0

Dimensions are in inches (mm). Tolerances: 2 Pl. ± 0.015 "; 3 Pl. ± 0.01 "

Notes:

- Case material: Nickel-Silver alloy.
- Base: Printed wiring laminate.
- Termination finish:
 - For RoHS Case Styles: 2-5 μ inch (.05-.13 microns) Gold over 120-240 μ inch (3.05-6.10 microns) Nickel plate.
 - For RoHS-5 Case Styles: Tin-Lead plate.



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

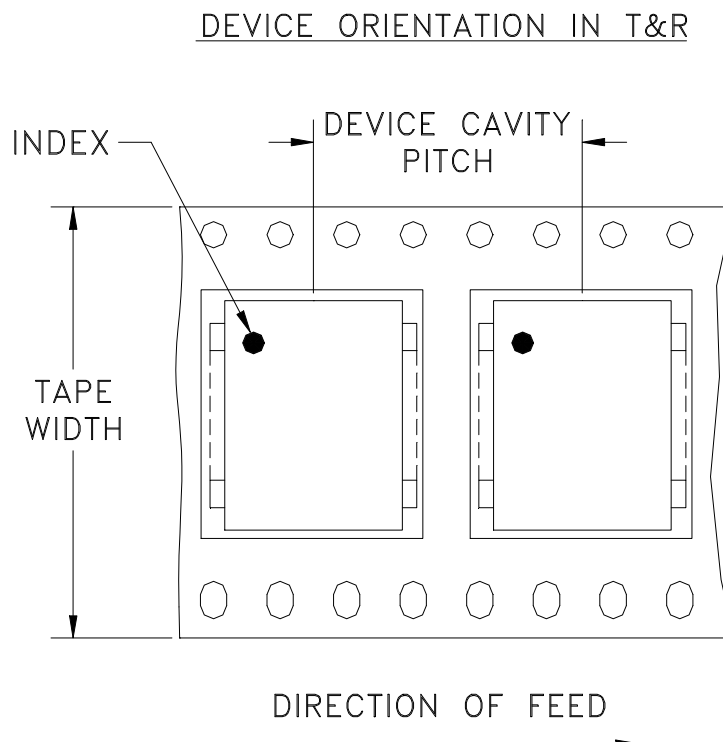


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RF/IF MICROWAVE COMPONENTS



Tape & Reel Packaging TR-F5



Tape Width, mm	Device Cavity Pitch, mm	Reel Size, inches	Devices per Reel
32	16	13	500

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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