Engineering Development Model

High Pass Filter SXHP-EDU1987

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.

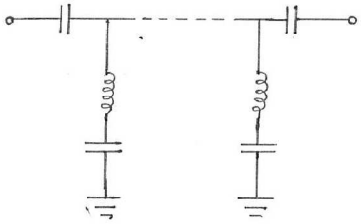
Please click "Back", and then click "Contact Us" for Applications support.

CASE STYLE : HF1139

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C

Parameter	Min.	Typ.	Max.	Units
Passband (Loss < 1 dB)	25		30	MHz
Insertion loss 3 dB		22		MHz
Stopband (Loss > 40 dB)	DC	16.5		MHz
(Loss > 20 dB)	16.5	18.0		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

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Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)
0.30	79.32	0.01
1.00	69.20	0.00
5.00	59.44	0.02
9.20	72.87	0.06
10.00	76.65	0.07
11.50	68.84	0.09
16.50	51.39	0.25
17.00	42.59	0.28
18.00	31.12	0.35
18.20	29.22	0.36
19.20	20.68	0.51
22.00	3.05	5.23
22.20	2.45	6.40
25.00	0.55	23.47
30.00	0.34	26.45
50.00	0.21	27.77
100.00	0.21	25.83
200.00	0.22	39.07
350.00	0.26	31.74
500.00	0.31	26.26
650.00	0.36	23.66
850.00	0.42	21.49
900.00	0.44	21.02
1100.00	0.53	19.30

FREQUENCY (MHz)	GROUP DELAY (nsec)
25.0	56.28
25.2	53.76
25.4	51.50
25.6	49.43
25.8	47.53
26.0	45.82
26.2	44.19
26.4	42.74
26.6	41.35
26.8	40.04
27.0	38.82
27.2	37.70
27.4	36.60
27.6	35.64
27.8	34.64
28.0	33.72
28.2	32.87
28.4	32.02
28.6	31.25
29.0	29.75
29.2	29.05
29.4	28.38
29.6	27.57
30.0	25.25

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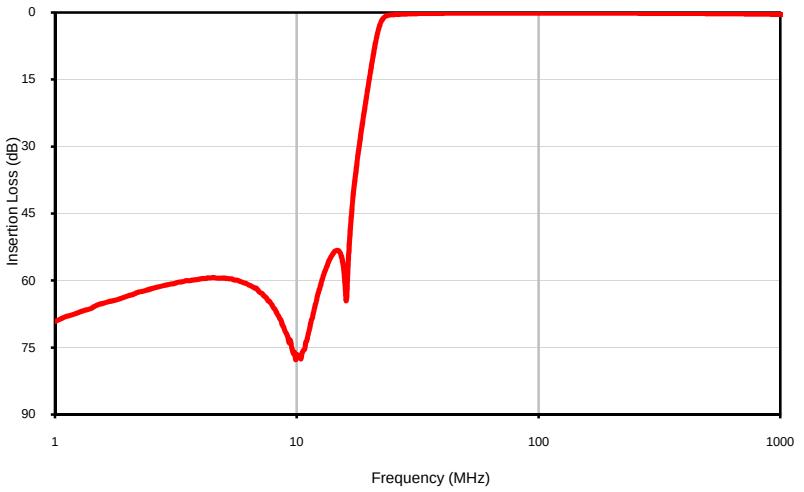
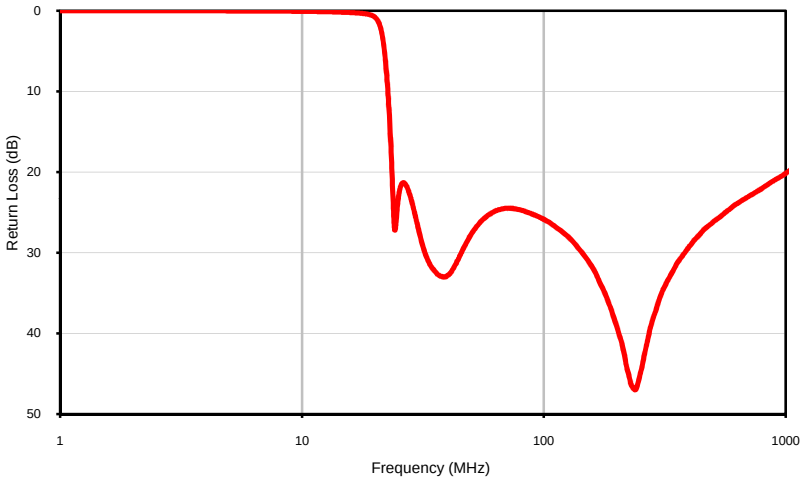
Typical Performance Curves

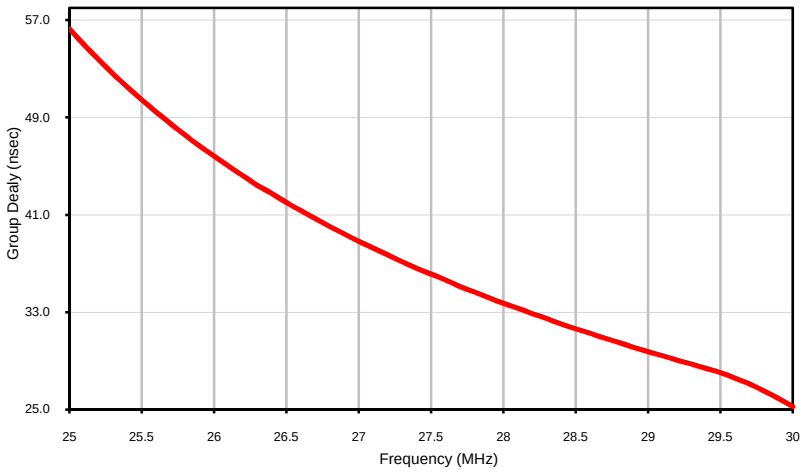
Insertion Loss



Return Loss



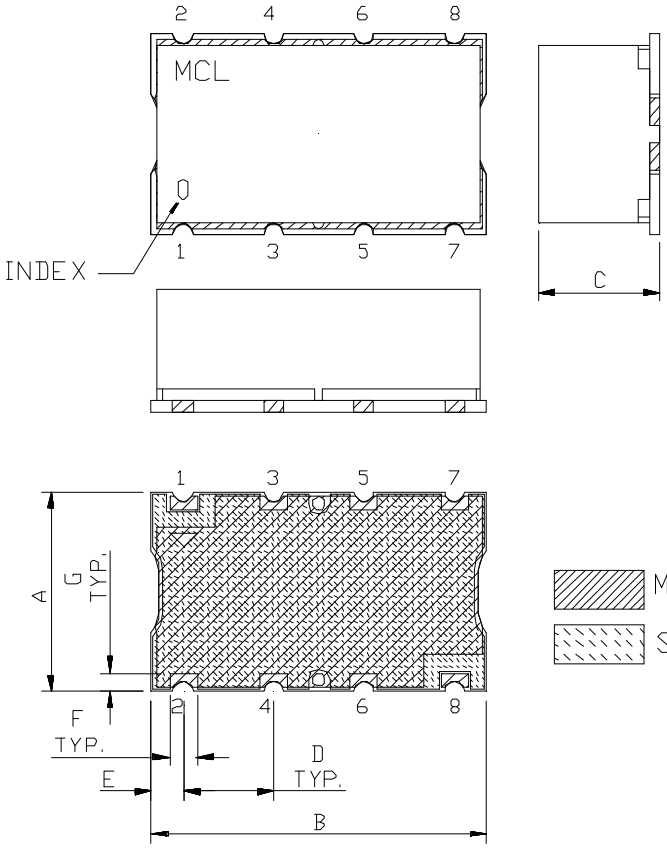
Group Delay



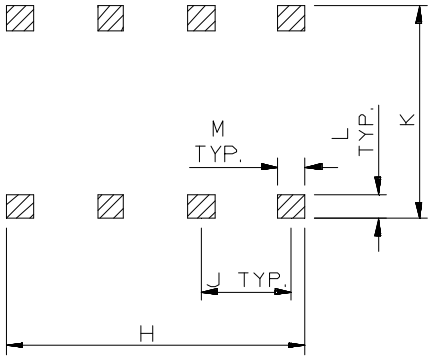
Case Style HF

HF1139

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. ±.015"; 3 Pl. ±.01"

Notes:

1. Case material: Nickel-Silver alloy.
2. Base: Printed wiring laminate.
3. 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.

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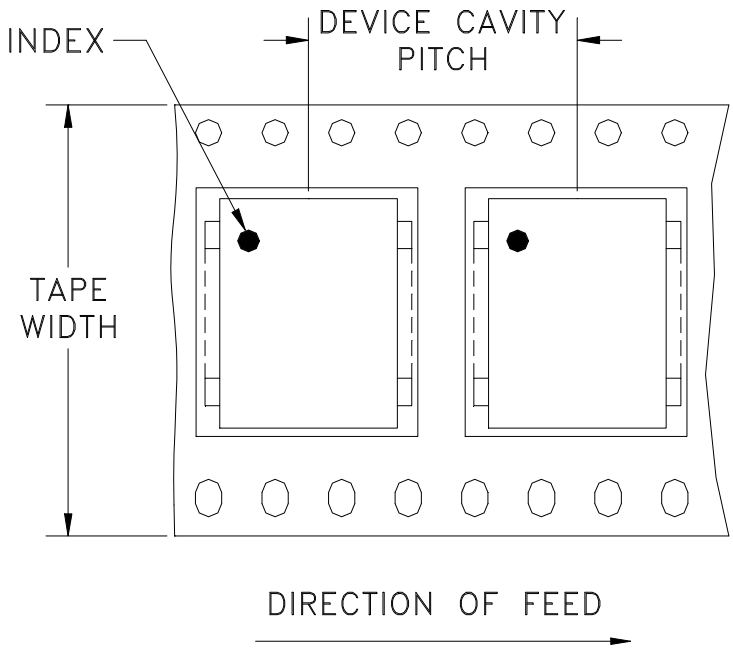
Tape & Reel Packaging TR-F5

DEVICE ORIENTATION IN T&R



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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