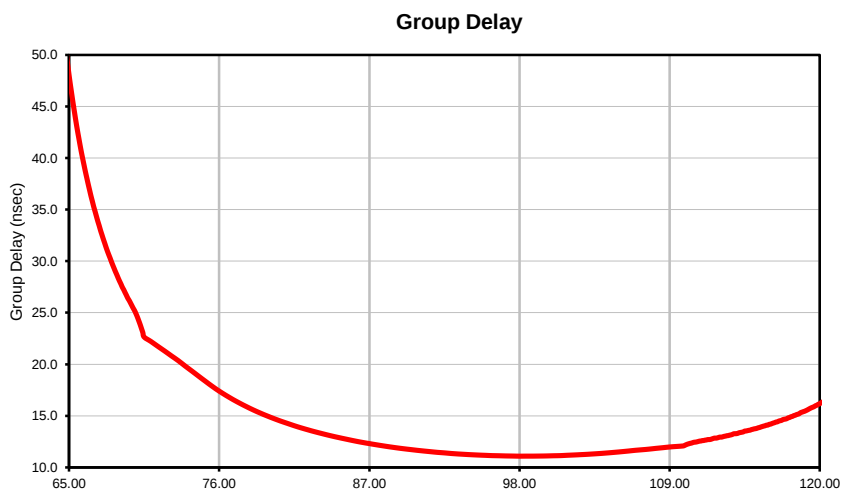
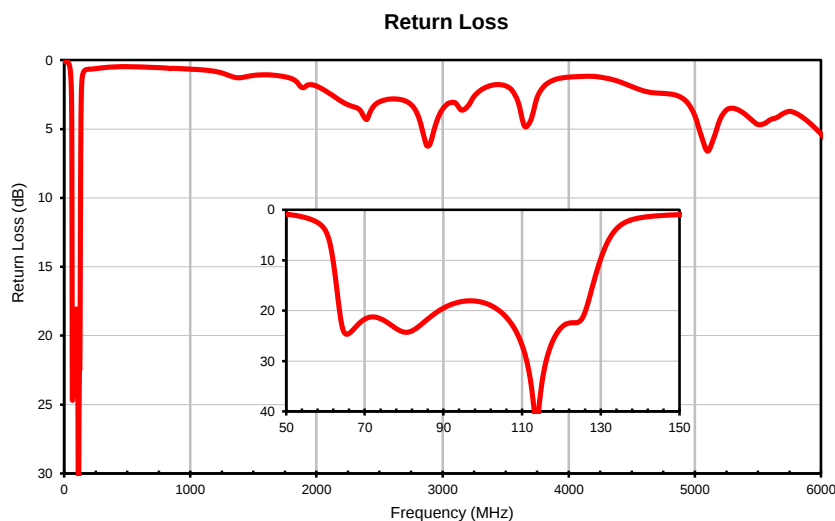
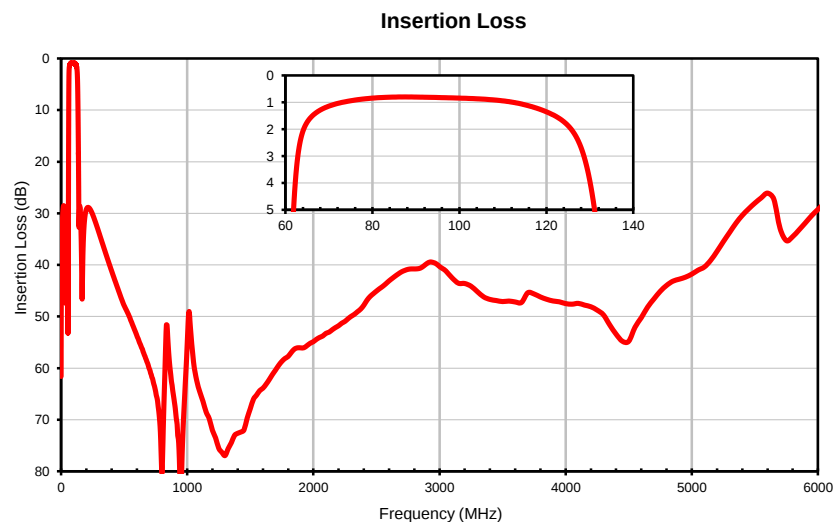


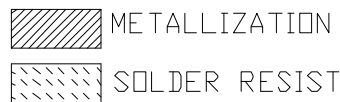
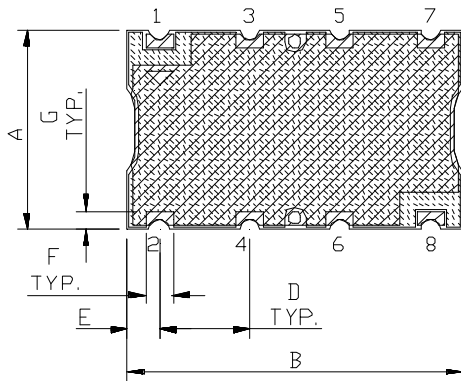
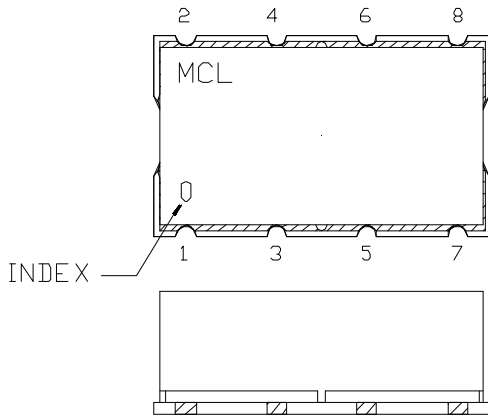
Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
1.0	51.30	0.05	65.0	48.00
26.5	29.64	0.11	65.5	43.54
38.5	44.65	0.29	66.0	39.91
50.6	31.80	0.92	66.5	36.89
56.0	44.09	1.82	67.0	34.35
58.0	34.55	2.53	68.0	30.30
62.5	3.52	13.24	70.0	24.59
65.0	1.73	24.57	73.0	20.35
73.0	1.00	21.35	78.0	15.89
93.0	0.81	18.52	87.0	12.31
110.0	0.94	26.85	95.0	11.20
114.0	1.05	41.38	100.0	11.11
120.0	1.35	23.35	105.0	11.47
138.0	19.77	1.95	109.0	11.99
140.0	26.66	1.59	110.0	12.08
154.0	30.35	0.87	111.0	12.48
169.0	43.95	0.71	113.0	13.01
210.0	28.87	0.65	115.5	13.85
770.0	67.47	0.55	116.0	14.04
800.0	80.37	0.57	117.0	14.49
950.0	86.03	0.63	118.0	14.95
1020.0	50.20	0.67	119.0	15.51
3000.0	40.31	3.56	119.5	15.84
5500.0	28.02	4.67	120.0	16.18

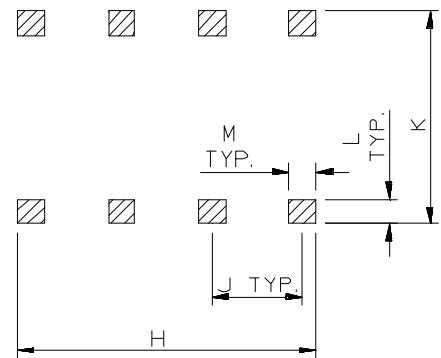
Typical Performance Curves



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

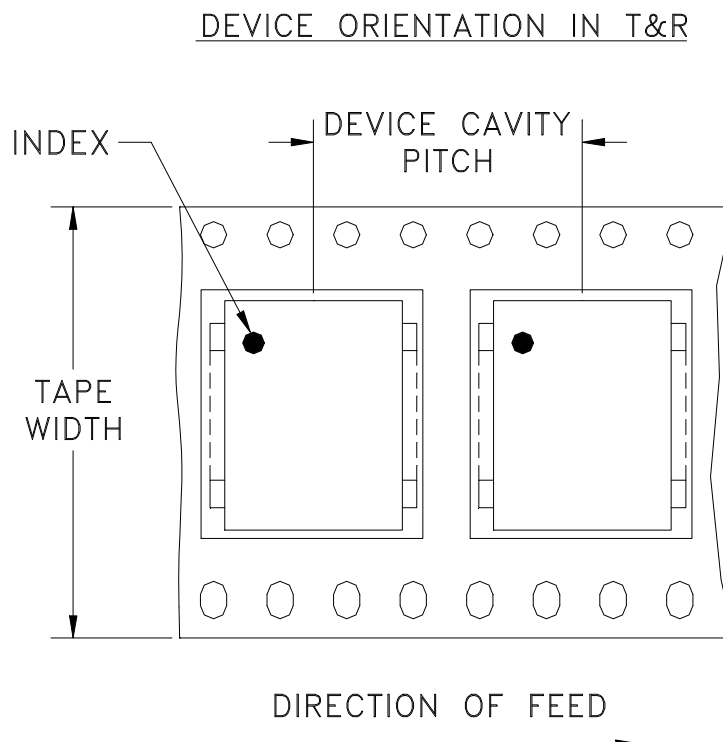


The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

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.

Go to: www.minicircuits.com/pages/pdfs/tape.pdf



Distribution Centers NORTH AMERICA 800-654-7949 • 417-335-5935 • Fax 417-335-5945 • EUROPE 44-1252-832600 • Fax 44-1252-837010

Mini-Circuits ISO 9001 & ISO 14001 Certified

INTERNET <http://www.minicircuits.com>

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661