

Band Pass Filter

BPF-EDU0381

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.



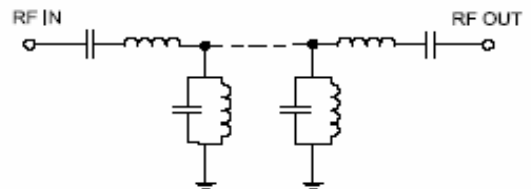
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CASE STYLE : BG291

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter	Min.	Typ.	Max.	Units
Passband (Loss < 3dB)	115		165	MHz
Center Frequency		140		MHz
Stopband Low Band (Loss > 20 dB)	85		94	MHz
Low Band (Loss > 40 dB)	DC		85	MHz
High Band (Loss > 20 dB)	190		210	MHz
High Band (Loss > 40 dB)	210		400	MHz
Passband VSWR		1.5		(:1)
Stopband VSWR		18		(:1)

MAXIMUM RATINGS	
Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W at 25°C

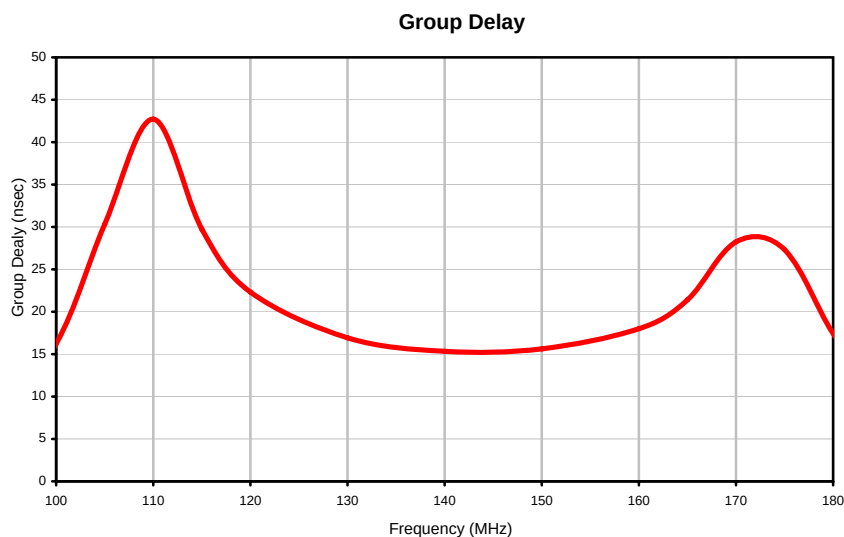
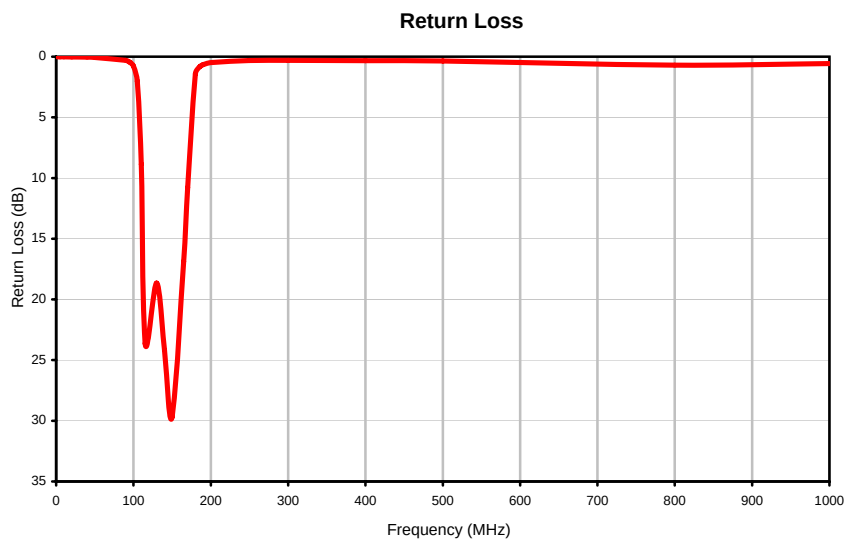
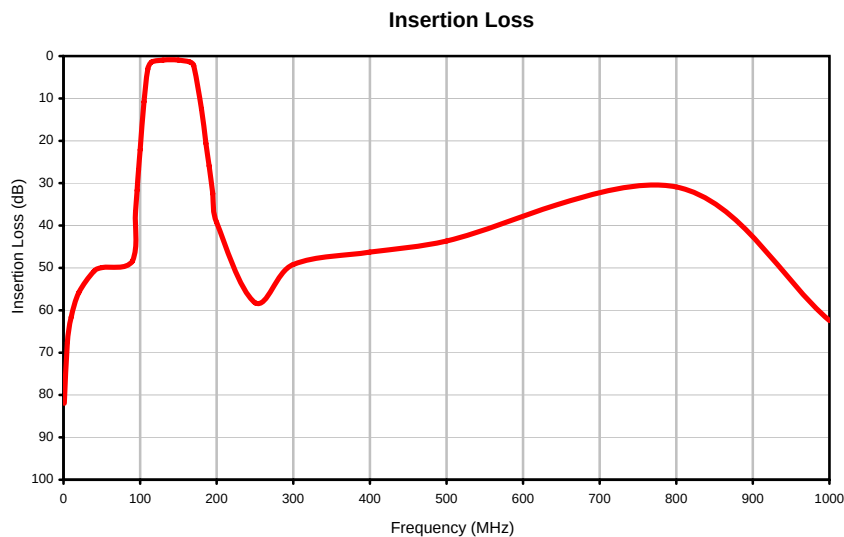
Functional Schematic



Typical Performance Data

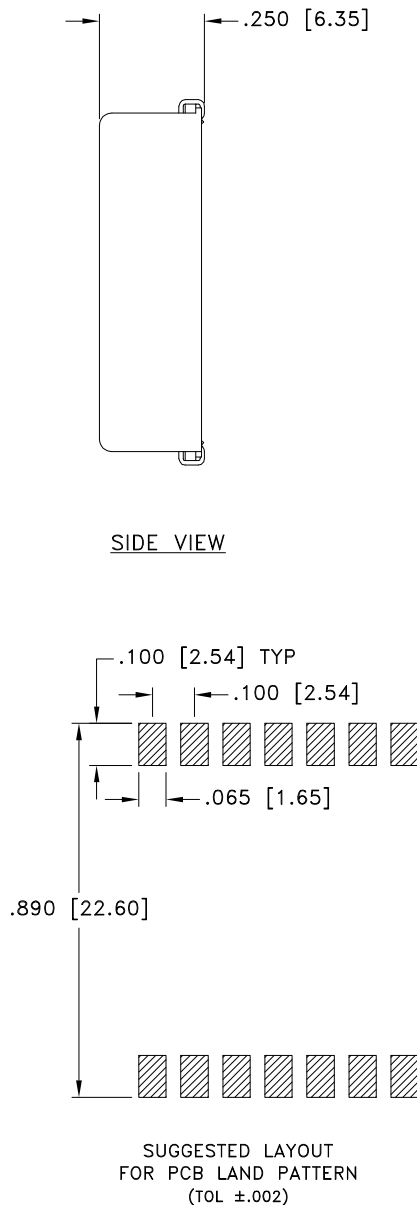
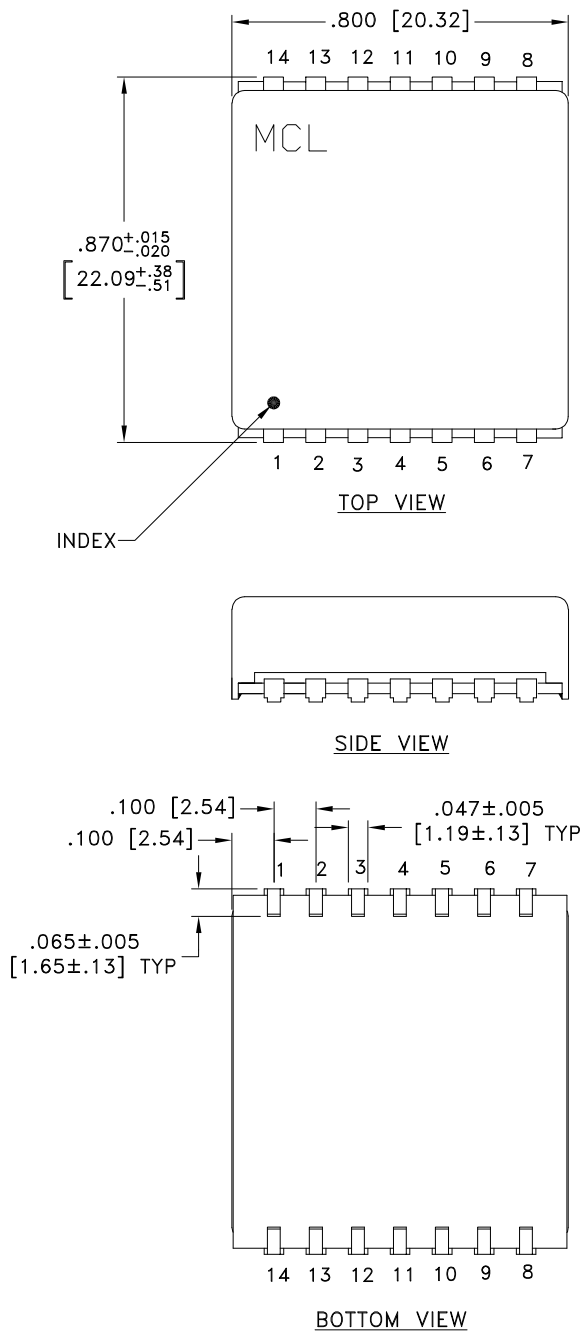
FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
1.00	81.96	0.01	1.00	48.04
5.00	67.64	0.01	5.00	0.18
10.00	61.63	0.01	10.00	2.60
20.00	55.79	0.02	20.00	2.08
40.00	50.76	0.04	50.00	2.63
50.00	49.91	0.06	80.00	6.97
90.00	48.42	0.30	90.00	4.23
94.00	36.78	0.41	94.00	8.69
96.00	31.69	0.49	100.00	16.22
98.00	26.84	0.61	105.00	30.34
100.00	22.11	0.78	110.00	42.71
105.00	10.79	2.02	115.00	29.71
110.00	3.06	8.86	120.00	22.32
115.00	1.38	23.64	130.00	16.93
130.00	0.95	18.66	140.00	15.35
140.00	0.88	24.14	150.00	15.63
150.00	0.94	29.69	160.00	18.00
165.00	1.41	16.88	165.00	21.42
170.00	2.26	10.78	170.00	28.25
180.00	12.41	1.43	175.00	27.32
186.00	20.61	0.81	180.00	17.43
190.00	25.91	0.66	184.00	11.90
195.00	32.48	0.55	190.00	7.72
200.00	39.28	0.49	200.00	4.10
250.00	58.22	0.32	250.00	0.94
300.00	49.20	0.31	300.00	0.41
400.00	46.28	0.33	400.00	0.54
500.00	43.65	0.36	500.00	0.41
800.00	30.89	0.70	800.00	1.20
1000.00	62.43	0.57	1000.00	2.07

Typical Performance Curves



Outline Dimensions

BG291



DENOTES METALLIZATION

Weight: 4 gram

Dimensions are in inches[mm]. Tolerances: 2PL $\pm$ 0.03[0.76]; 3 PL $\pm$ 0.015 [0.381] inches[mm], unless otherwise specified

Notes:

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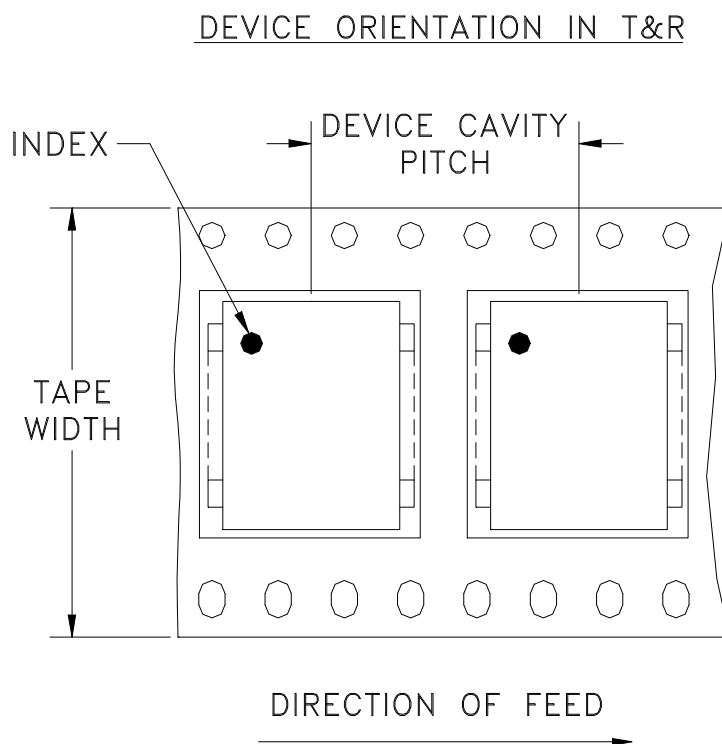
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