

Engineering Development Model

Band Pass Filter

BPF-EDU1232

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.



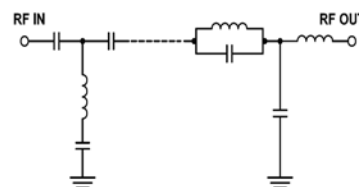
Please click "Back", and then click "Contact Us" for Applications support.

CASE STYLE : HQ1157

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter	Min.	Typ.	Max.	Units
Passband (Loss < 2.5 dB)	500		700	MHz
Centre frequency		600		MHz
Low Band (Loss > 40 dB)	DC		310	MHz
Low Band (Loss > 20 dB)	310		390	MHz
High Band (Loss > 20 dB)	780		860	MHz
High Band (Loss > 40 dB)	860		1700	MHz
Passband VSWR		1.5	2.1	(:1)
Stopband VSWR		18		(:1)

Functional Schematic

MAXIMUM RATINGS	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	1 W



PIN CONNECTIONS	
Input	1
Output	8
Case Ground	2,3,4,5,6,7,9,10,11,12,13,14

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RF/IF MICROWAVE COMPONENTS

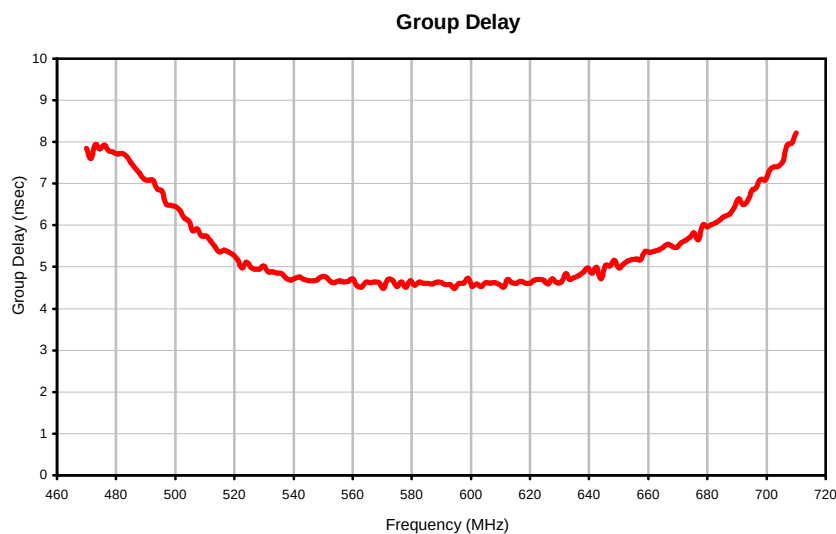
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Typical Performance Data

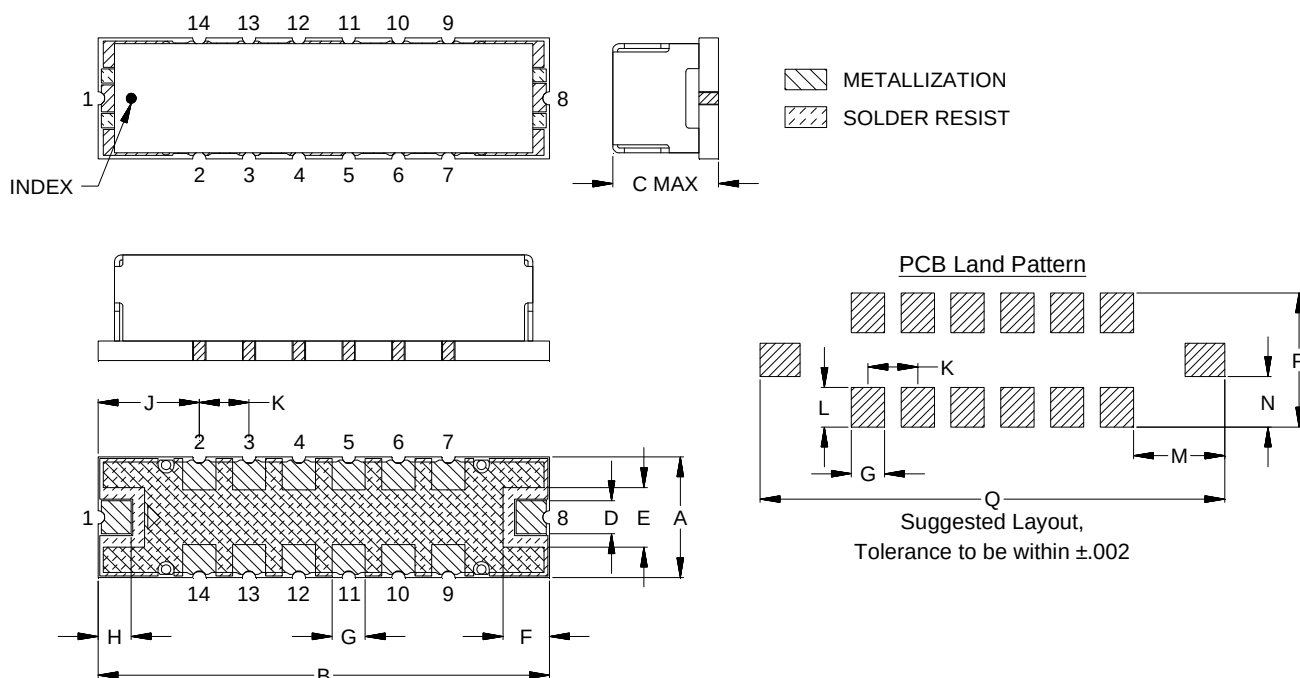
FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
0.5	98.09	0.01	470.0	7.84
5.0	79.51	0.02	476.0	7.93
11.0	72.76	0.00	485.0	7.50
50.0	60.38	0.05	491.0	7.08
101.0	57.55	0.20	497.0	6.49
200.0	60.93	0.50	500.0	6.45
310.0	50.86	0.77	503.0	6.17
377.0	46.17	1.35	506.0	5.88
380.0	41.18	1.34	512.0	5.62
390.0	31.09	1.24	515.0	5.36
398.0	26.16	1.17	521.0	5.18
410.0	20.61	1.09	530.0	5.02
425.0	15.00	1.16	542.0	4.77
440.0	10.24	1.52	554.0	4.62
458.0	5.37	2.87	560.0	4.72
473.0	2.54	5.92	575.0	4.53
488.0	1.34	11.82	581.0	4.57
500.0	1.11	15.26	590.0	4.63
600.0	0.97	20.52	596.0	4.60
700.0	1.59	19.27	600.0	4.60
731.0	2.62	8.92	602.0	4.59
743.0	5.25	4.05	608.0	4.62
752.0	9.54	2.37	620.0	4.61
761.0	15.32	1.69	635.0	4.74
770.0	21.76	1.38	641.0	4.85
780.0	29.75	1.19	650.0	4.97
791.0	41.36	1.05	662.0	5.37
860.0	56.78	0.73	671.0	5.57
881.0	65.33	0.69	680.0	5.96
899.0	72.70	0.67	695.0	6.84
1001.0	60.52	0.56	698.0	7.09
1201.0	50.18	0.46	700.0	7.16
1501.0	54.29	0.41	707.0	7.93
1700.0	63.08	0.45	710.0	8.22

Typical Performance Curves



Outline Dimensions

HQ1157



CASE#	A	B	C	D	E	F	G	H	J	K	L	M
HQ1157	.365 (9.27)	1.360 (34.54)	.350 (8.89)	.100 (2.54)	.180 (4.57)	.140 (3.56)	.100 (2.54)	.100 (2.54)	.305 (7.75)	.150 (3.81)	.120 (3.05)	.275 (6.99)

CASE#	N	P	Q	WT.GRAM
HQ1157	.152 (3.87)	.405 (10.29)	1.400 (35.56)	4.0

Dimensions are in inches (mm). Tolerances: 2Pl. ± .03; 3Pl. ± .015

Notes:

- Case material: Nickel-Silver alloy.
- Base: Printed wiring laminate.
- Termination finish:
For RoHS Case Styles: 3-5 μ inch (.08-.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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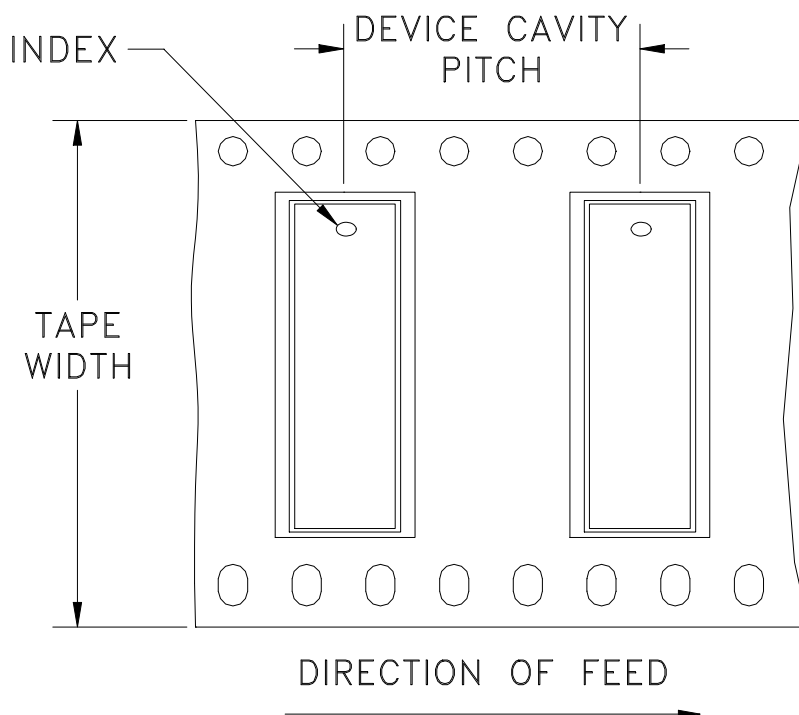


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RFIIF MICROWAVE COMPONENTS

Tape & Reel Packaging TR-F83

DEVICE ORIENTATION IN T&R



Tape Width, mm	Device Cavity Pitch, mm	Reel Size, inches	Devices per Reel
56	16	13	100

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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