

Band Pass Filter

CBPF-EDU1109

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.

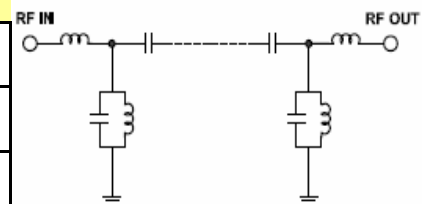
CASE STYLE : HQ1157

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C

Parameter	Min.	Typ.	Max.	Units
Passband (Loss < 8.5 dB)	329		335	MHz
Centre frequency		332		MHz
Low Band (Loss > 40 dB)	DC		308	MHz
High Band (Loss > 40 dB)	358		2250	MHz
High Band (Loss 20 dB typ)	2250		4000	MHz
Passband VSWR		1.2	1.6	(: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	100mW



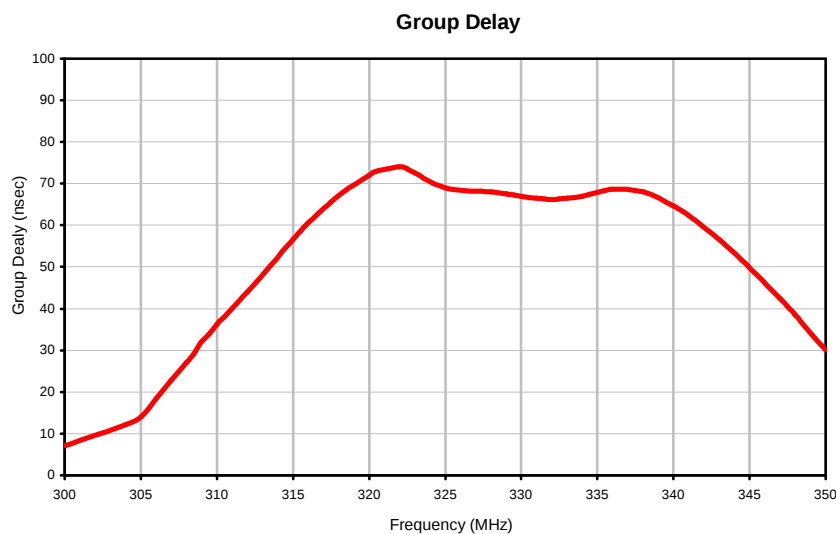
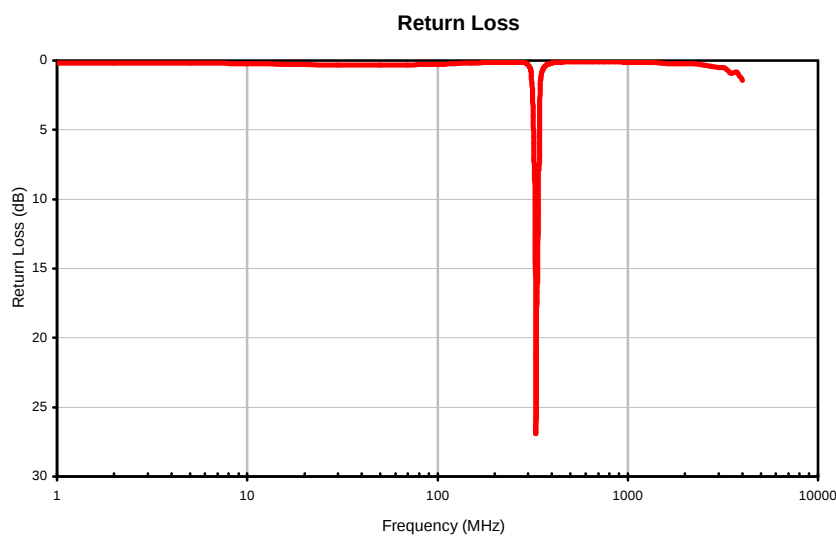
PIN CONNECTIONS

Input	1
Output	8
Not Connected	-
Case Ground	2,3,4,5,6,7,9,10,11,12,13,14

Typical Performance Data

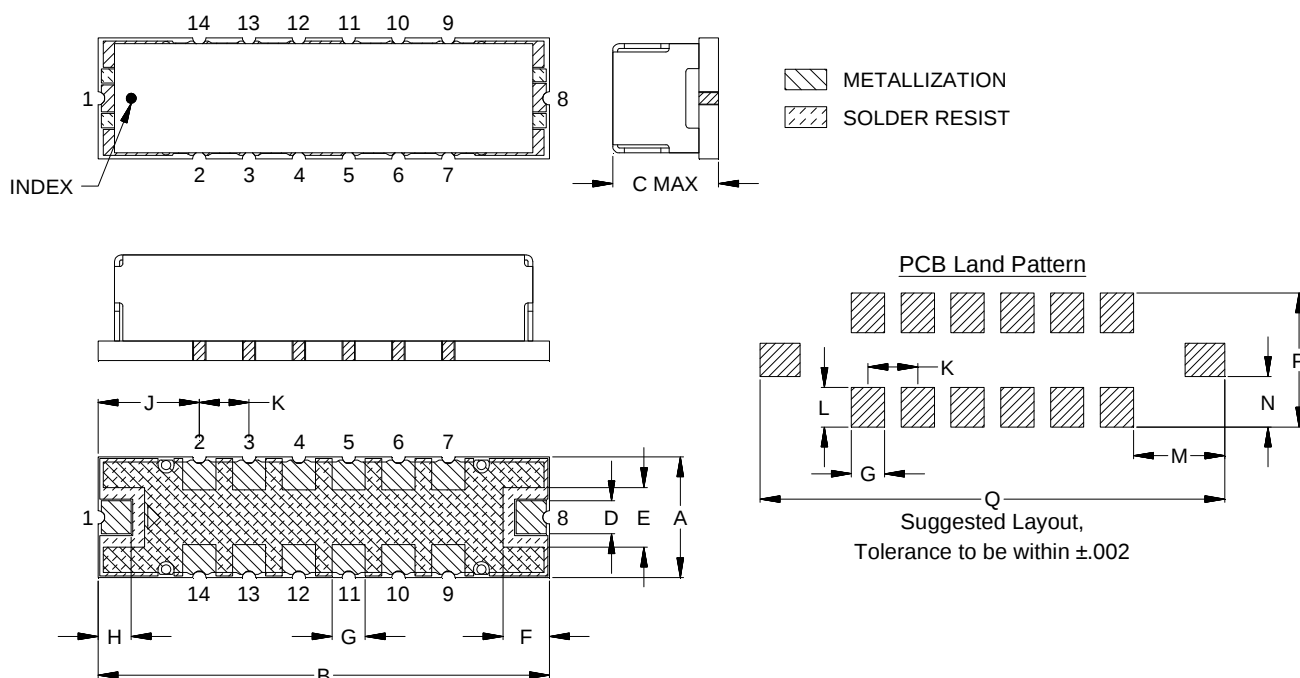
FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
0.5	89.60	0.19	300	9.32
100.0	90.82	0.27	304	12.20
200.0	99.40	0.14	306	20.03
300.0	69.17	0.34	308	29.09
308.0	49.06	0.81	310	38.17
312.0	34.43	1.83	312	46.79
316.0	18.02	5.52	315	59.04
318.5	14.19	7.40	316	62.45
322.0	9.44	12.08	319	69.50
329.0	6.73	24.34	320	72.65
332.0	6.66	17.04	322	73.84
335.0	7.10	15.32	325	68.22
340.0	10.38	6.93	328	66.02
343.0	14.39	4.67	329	65.45
348.0	28.59	1.39	330	65.07
352.0	39.38	0.86	332	65.19
358.0	50.78	0.55	334	66.91
390.0	78.22	0.20	335	68.36
500.0	99.36	0.10	336	69.38
1000.0	93.63	0.14	338	68.45
2250.0	53.39	0.34	340	64.60
2500.0	46.62	0.40	343	56.10
3000.0	34.10	0.63	347	41.67
4000.0	22.14	2.04	350	28.50

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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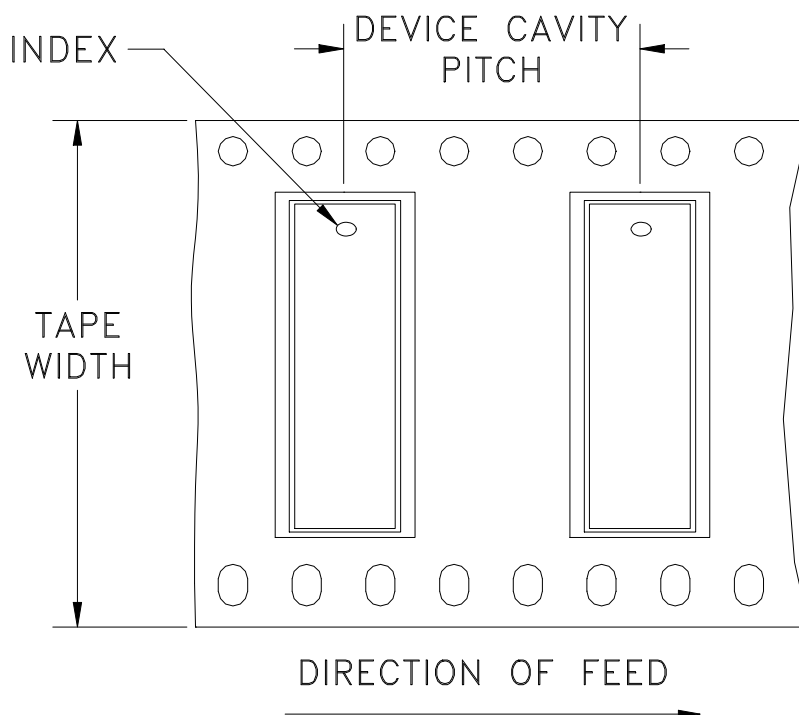


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RFIIF MICROWAVE COMPONENTS

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

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Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-40° to 85° C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-65° to 150° C Ambient Environment	Individual Model Data Sheet
Autoclave	15 psig, 100% RH, 121°C, 96 hours	JESD22-A102-C, Condition C
Temperature Cycling	-65° to 150°C, 100 cycles	JESD22-A104
Temperature Humidity	85°C/ 85% RH, 168 hours	JESD22-113
Solder Reflow Heat	Sn-Pb Eutetic Process: 240°C peak Pb-Free Process: 260°C peak	J-STD-020, Table 4-1, 4-2 and 5-2; Figure 5-1
Moisture Sensitivity: Level 1	Bake at 125°C for 24 hours Soak at 85°C/85% RH for 168 hours, Reflow 3 cycles at 240°C peak (Non-RoHS) or 260°C (RoHS)	J-STD-020
Solderability	10X magnification, 95% coverage	JESD22-B102, Method 1: Dip and Look Test
Mechanical Shock	50g, 11 ms, 1/2-sine, 18 shocks: 3 each direction, each of 3 axes	MIL-STD-202, Method 213, Condition A
Vibration (High Frequency)	20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D