

Engineering Development Model

Band Pass Filter

Surface Mount

BPF-EDU1475+

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.

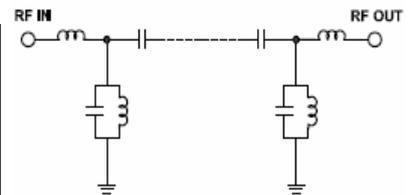
CASE STYLE : HQ1157

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C

Parameter	Min.	Typ.	Max.	Units
Passband (Loss < 5.0 dB)	267		283	MHz
Centre frequency		275		MHz
Low Band (Loss > 40 dB)	DC		242	MHz
Low Band (Loss > 20 dB)	242		252	MHz
High Band (Loss > 20 dB)	300		314	MHz
High Band (Loss > 40 dB)	314		2000	MHz
High Band (Loss 40 dB typ)	2000		4000	MHz
Passband VSWR		1.3	1.9	(: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	0.5W



PIN CONNECTIONS

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



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Band Pass Filter

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Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
1.0	79.01	0.22	264	56.99
50	87.92	0.39	265	53.36
100	91.51	0.52	266	50.31
242	48.36	0.80	267	47.67
252	29.17	1.51	268	45.49
257	15.94	3.25	269	43.73
260	8.53	7.67	270	42.42
264	4.33	22.30	271	41.48
267	3.54	19.43	272	40.87
275	3.12	14.43	273	40.44
283	3.52	16.36	273	40.36
287	4.54	18.72	274	40.21
290	8.04	9.43	275	40.11
295	19.26	2.58	276	40.20
300	28.71	1.59	277	40.45
314	47.00	1.01	278	40.86
500	100.38	0.84	279	41.39
1000	94.28	1.23	280	41.98
1500	75.65	1.46	281	42.56
2000	63.83	1.77	282	43.15
2500	48.56	1.77	283	43.97
3000	39.56	2.27	284	45.39
3500	35.68	2.11	285	47.80
4000	22.28	3.73	286	51.50

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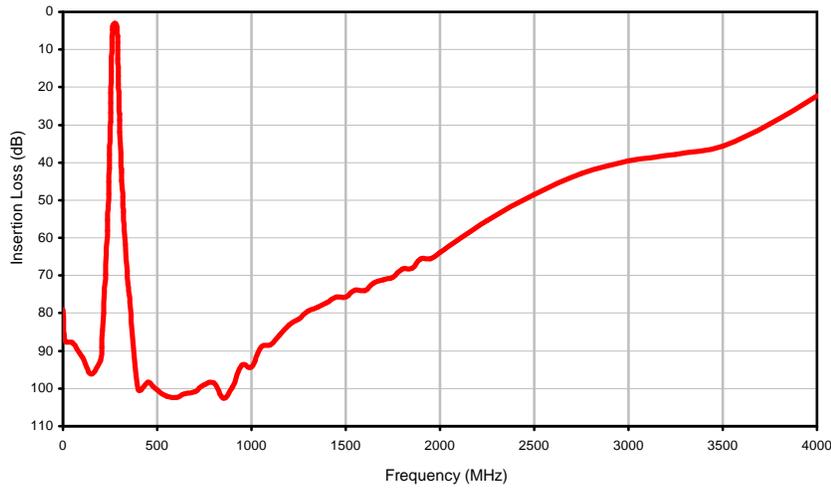


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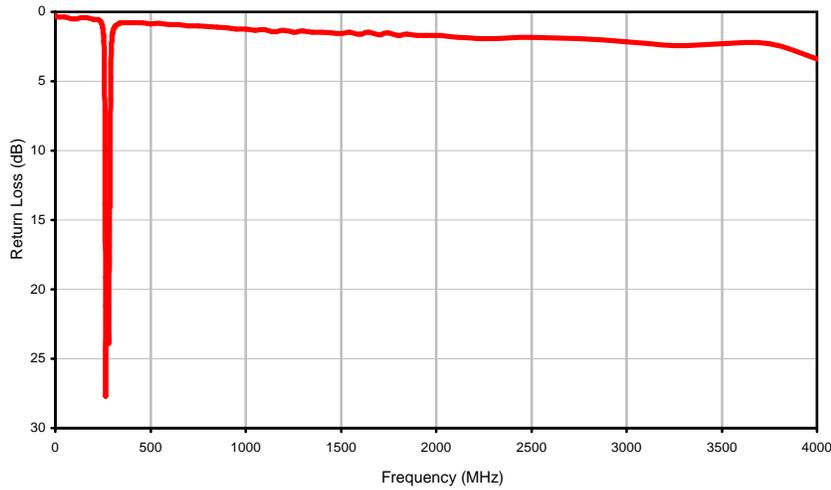


Typical Performance Curves

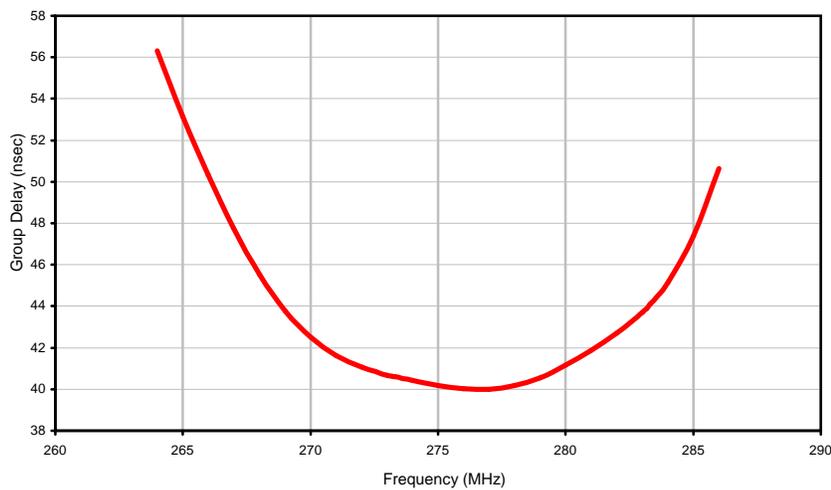
Insertion Loss



Return Loss



Group Delay



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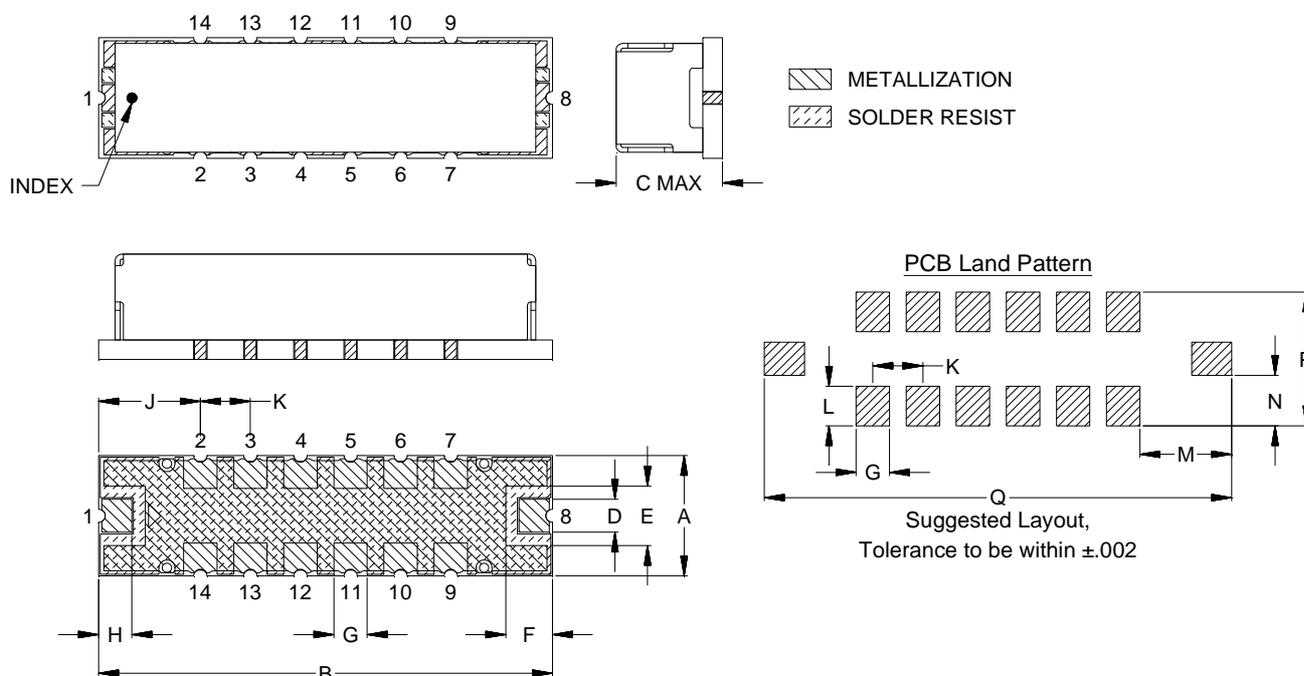


Case Style

HQ

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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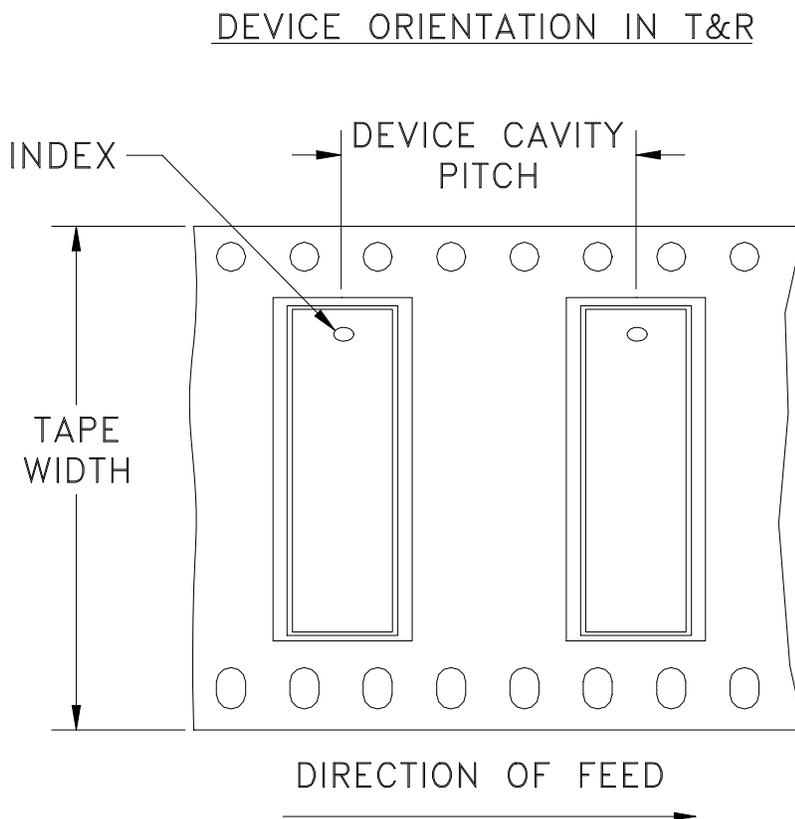
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Tape & Reel Packaging TR-F83



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

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