

Band Pass Filter Surface Mount

BPF-EDU1382+

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.



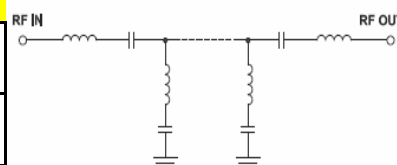
CASE STYLE : HP1156

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C

Parameter	Min.	Typ.	Max.	Units
Passband (Loss < 3.0 dB)	145		150	MHz
Centre frequency		148		MHz
Low Band (Loss > 40 dB)	DC		110	MHz
Low Band (Loss > 20 dB)	110		118	MHz
High Band (Loss > 20 dB)	166		175	MHz
High Band (Loss > 40 dB)	175		400	MHz
Passband VSWR		1.2	1.67	(: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	2
Output	11
Not Connected	9,18
Case Ground	1, 3- 8, 10,12-17



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Metal Shield Band Pass Filter

BPF-EDU1382+

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
0.03	76.67	0.001	125	64.77
10	68.73	0.001	127	61.82
50	54.20	0.01	130	46.03
110	68.37	0.24	133	36.95
115	46.74	0.46	135	33.67
118	31.75	0.79	137	31.83
121	18.43	1.77	140	30.82
123	10.11	4.23	141	30.72
124	6.90	7.36	142	30.72
125	4.82	13.19	143	30.79
127	3.04	31.45	144	30.95
130	2.14	22.80	145	31.26
140	1.51	22.23	146	31.76
145	1.58	20.90	147	32.47
148	1.71	19.53	148	33.44
150	1.84	21.09	149	34.66
156	3.46	12.31	150	36.30
158	6.04	5.28	151	38.36
163	19.68	1.12	152	41.04
166	28.64	0.71	153	44.33
170	40.89	0.47	155	51.34
175	60.72	0.33	161	37.59
200	52.00	0.12	162	31.38
400	47.67	0.05	163	25.87

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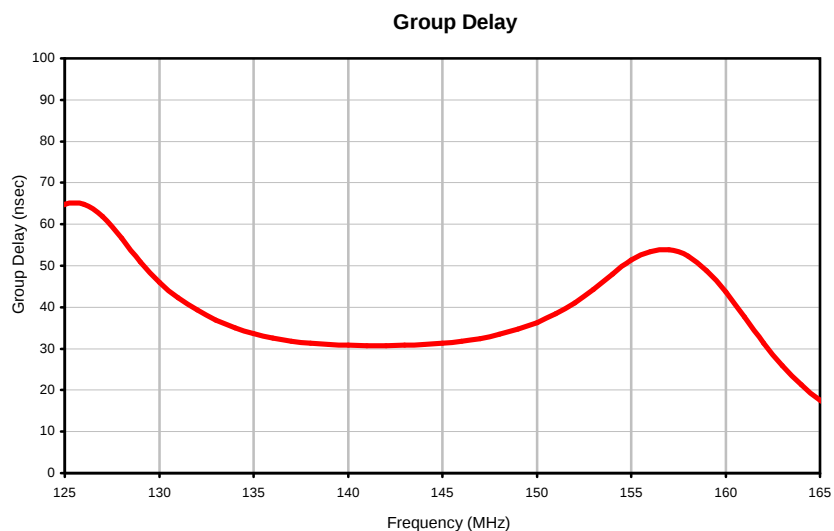
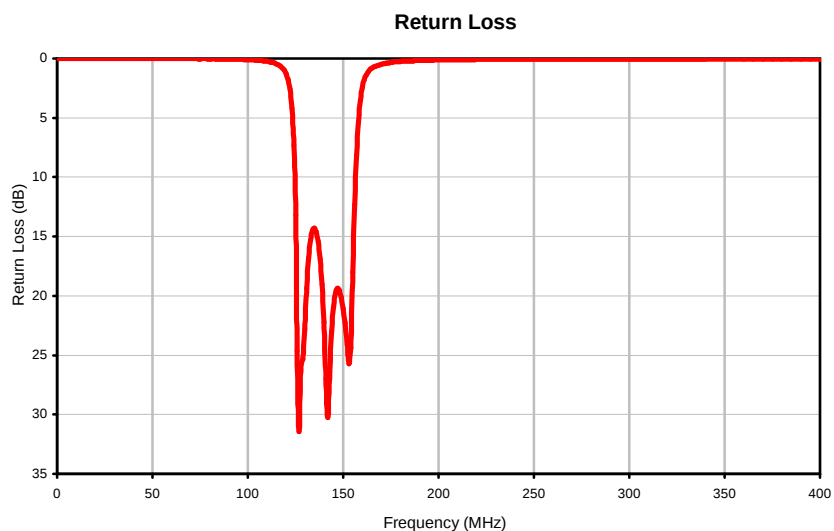
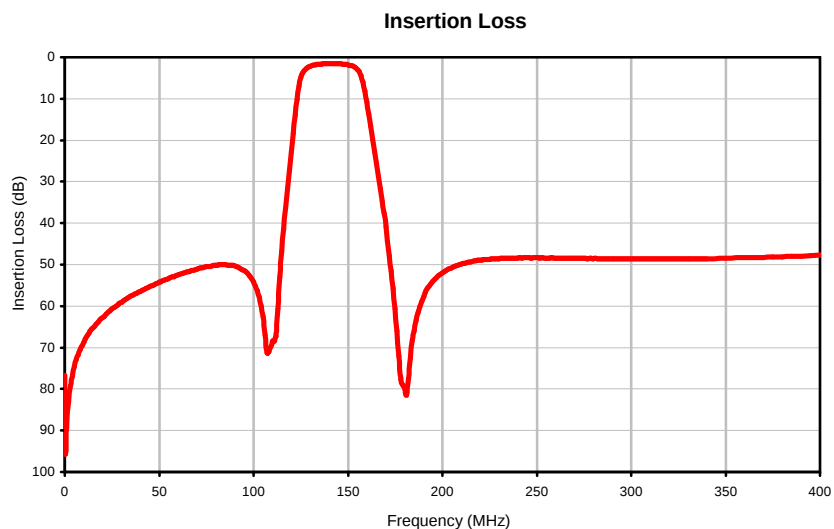
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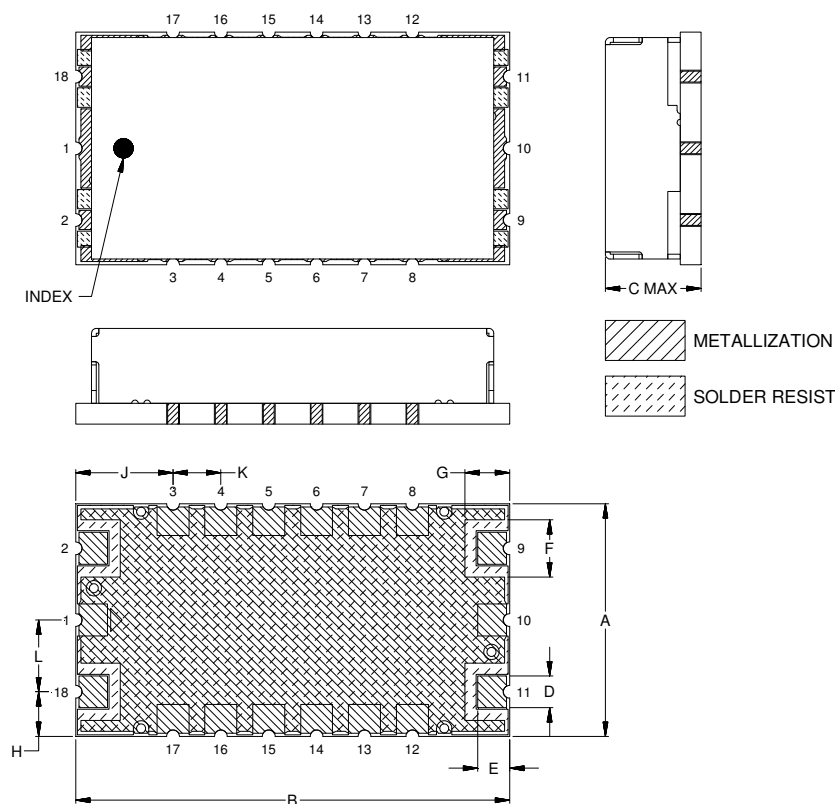


Typical Performance Curves

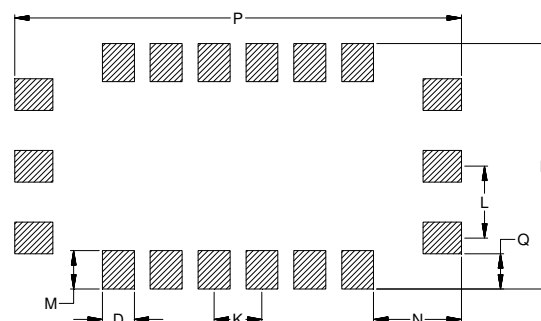


Outline Dimensions

HP1156



PCB Land Pattern



Suggested Layout,
Tolweance to be within $\pm .002$

CASE#	A	B	C	D	E	F	G	H	J	K	L	M
HP1156	.730 (18.54)	1.360 (34.54)	.350 (8.89)	.100 (2.54)	.100 (2.54)	.180 (4.57)	.140 (3.56)	.140 (3.56)	.305 (7.75)	.150 (3.81)	.225 (5.72)	.120 (3.05)

CASE#	N	P	Q	R	WT.GRAM
HP1156	.275 (6.99)	1.400 (35.56)	.110 (2.79)	.770 (19.56)	6.0

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

Notes:

- Case material: Nickel-Silver alloy.
- Base: Printed wiring laminate.
- Termination finish:
For RoHS Case Styles: 3-5 μ inch (.08-.13microns) Gold over 120-240 μ inch (3.05-6.10microns) Nickel plate.
For RoHS-5 Case Styles: Tin-Lead plate.

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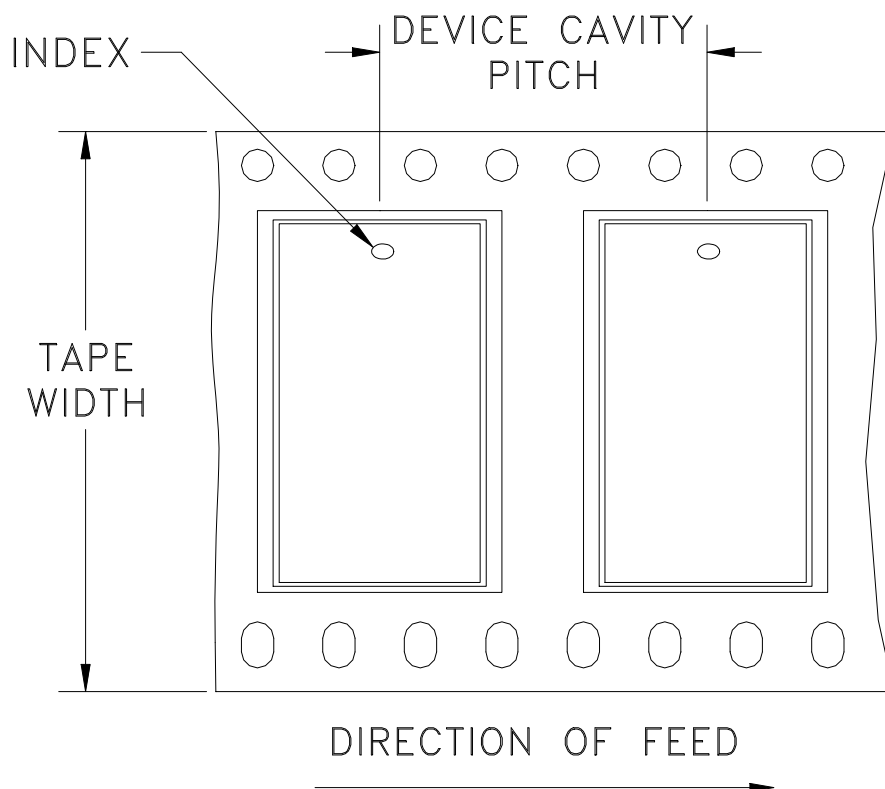
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RF/IF MICROWAVE COMPONENTS



Tape & Reel Packaging TR-F89

DEVICE ORIENTATION IN T&R



Tape Width, mm	Device Cavity Pitch, mm	Reel Size, inches	Devices per Reel
56	32	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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