

Band Pass Filter

BPF-EDU1211

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.

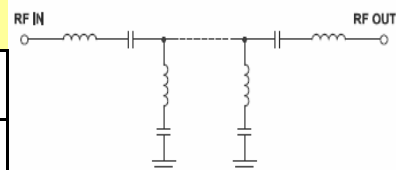


CASE STYLE : HP1156

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C					
Parameter	Min.	Typ.	Max.	Units	
Passband (Loss < 3.5 dB)	135		145	MHz	
Centre frequency		140		MHz	
Low Band (Loss > 40 dB)	DC		105	MHz	
Low Band (Loss > 20 dB)	105		125	MHz	
High Band (Loss > 20 dB)	155		175	MHz	
High Band (Loss > 40 dB)	175		400	MHz	
Passband VSWR		1.5	1.8	(: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	1W

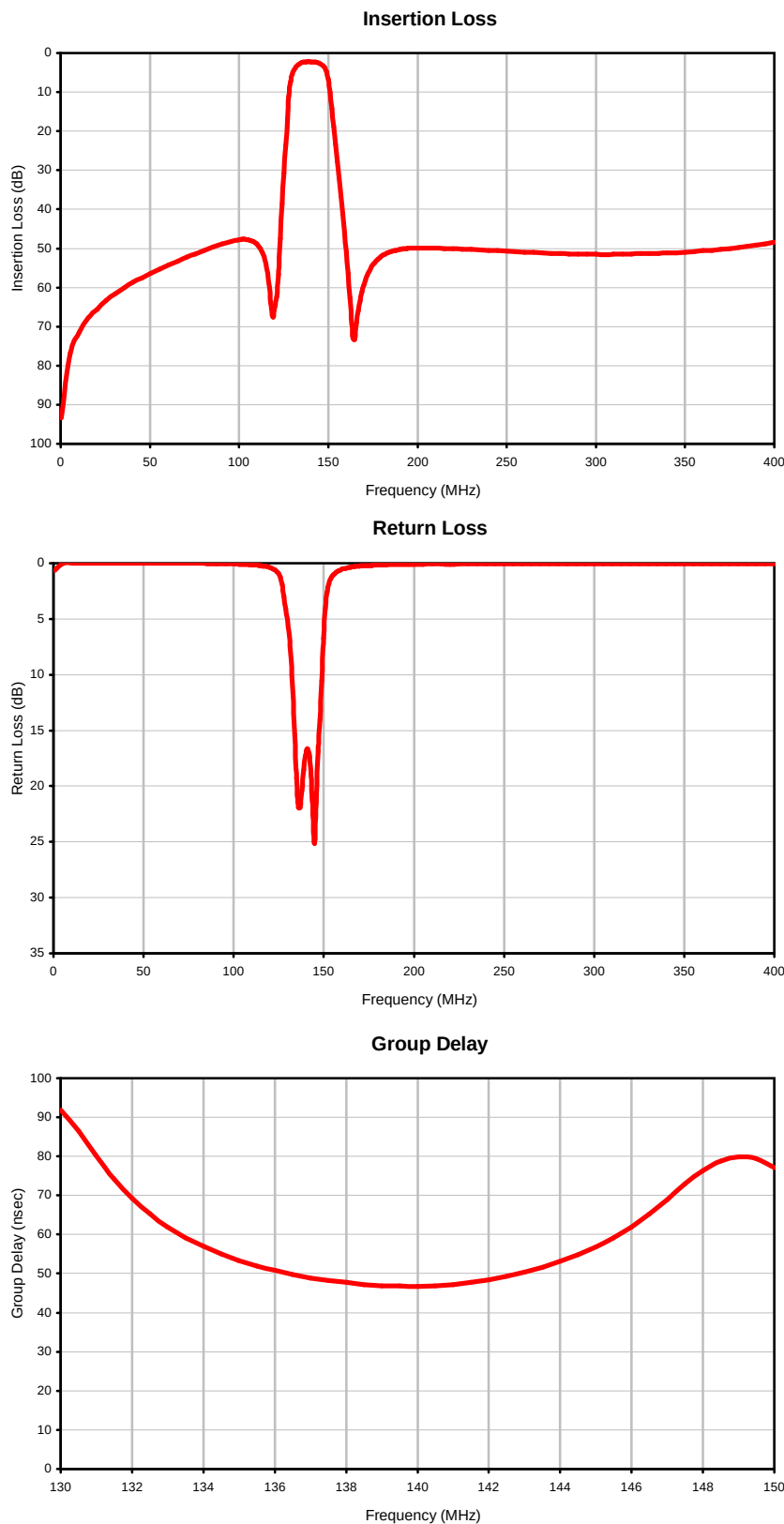


PIN CONNECTIONS	
Input	2
Output	11
Not Connected	9,18
Case Ground	1,3,4,5,6,7,8,10,12,13,14,15,16,17

Typical Performance Data

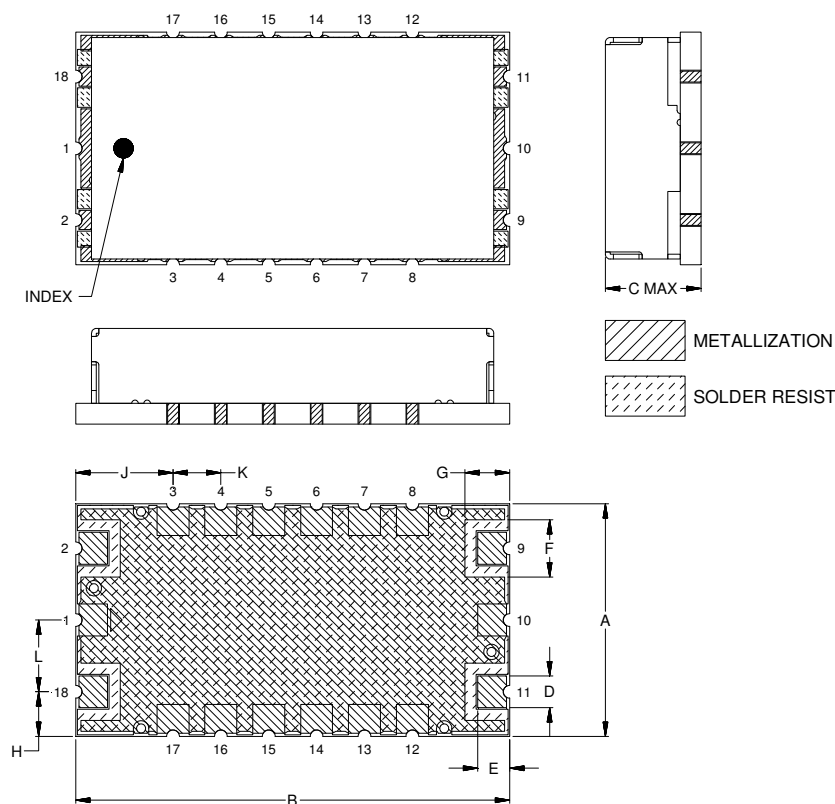
FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
0.50	93.38	0.63	130.00	91.83
50.50	56.36	0.02	131.00	80.22
105.00	47.76	0.10	132.00	69.22
125.00	30.75	0.91	133.00	61.94
127.00	16.88	1.87	134.00	56.99
128.00	11.12	3.01	135.00	53.33
129.00	7.33	4.08	136.00	50.79
130.00	5.39	5.04	137.00	48.90
133.00	3.08	11.63	138.00	47.70
135.00	2.48	19.29	139.00	46.92
138.00	2.24	20.34	139.50	46.80
140.00	2.24	17.22	140.00	46.75
142.00	2.32	17.05	140.50	46.86
145.00	2.61	25.15	141.00	47.22
149.00	4.79	10.58	141.50	47.71
150.00	6.82	6.71	142.00	48.41
151.00	10.15	4.01	143.00	50.38
153.00	18.82	1.83	144.00	53.10
155.00	27.74	1.13	145.00	56.77
159.00	45.86	0.63	146.00	61.93
175.00	54.27	0.21	147.00	68.97
200.00	49.87	0.09	148.00	76.30
300.00	51.45	0.05	149.00	79.84
400.00	48.36	0.06	150.00	77.17

Typical Performance Curves

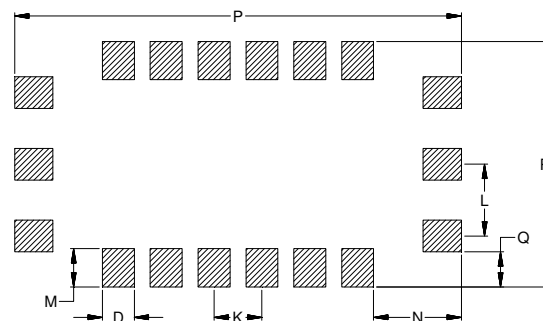


Outline Dimensions

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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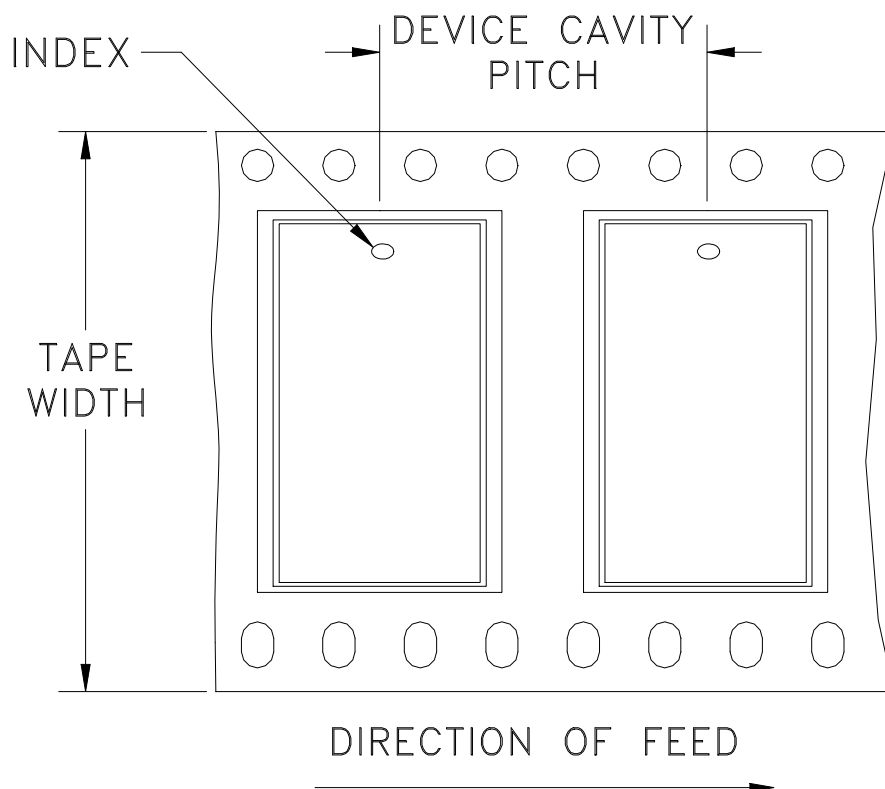
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RF/IF MICROWAVE COMPONENTS



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

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