

Band Pass Filter

BPF-EDU1210

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

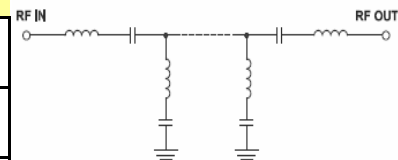
ELECTRICAL SPECIFICATIONS 50Ω @ +25°C

Parameter	Min.	Typ.	Max.	Units
Passband (Loss < 3.5 dB)	125		155	MHz
Centre frequency		140		MHz
Low Band (Loss > 40 dB)	DC		110	MHz
Low Band (Loss > 20 dB)	110		115	MHz
High Band (Loss > 20 dB)	167		174	MHz
High Band (Loss > 40 dB)	174		400	MHz
Passband VSWR		1.4	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	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

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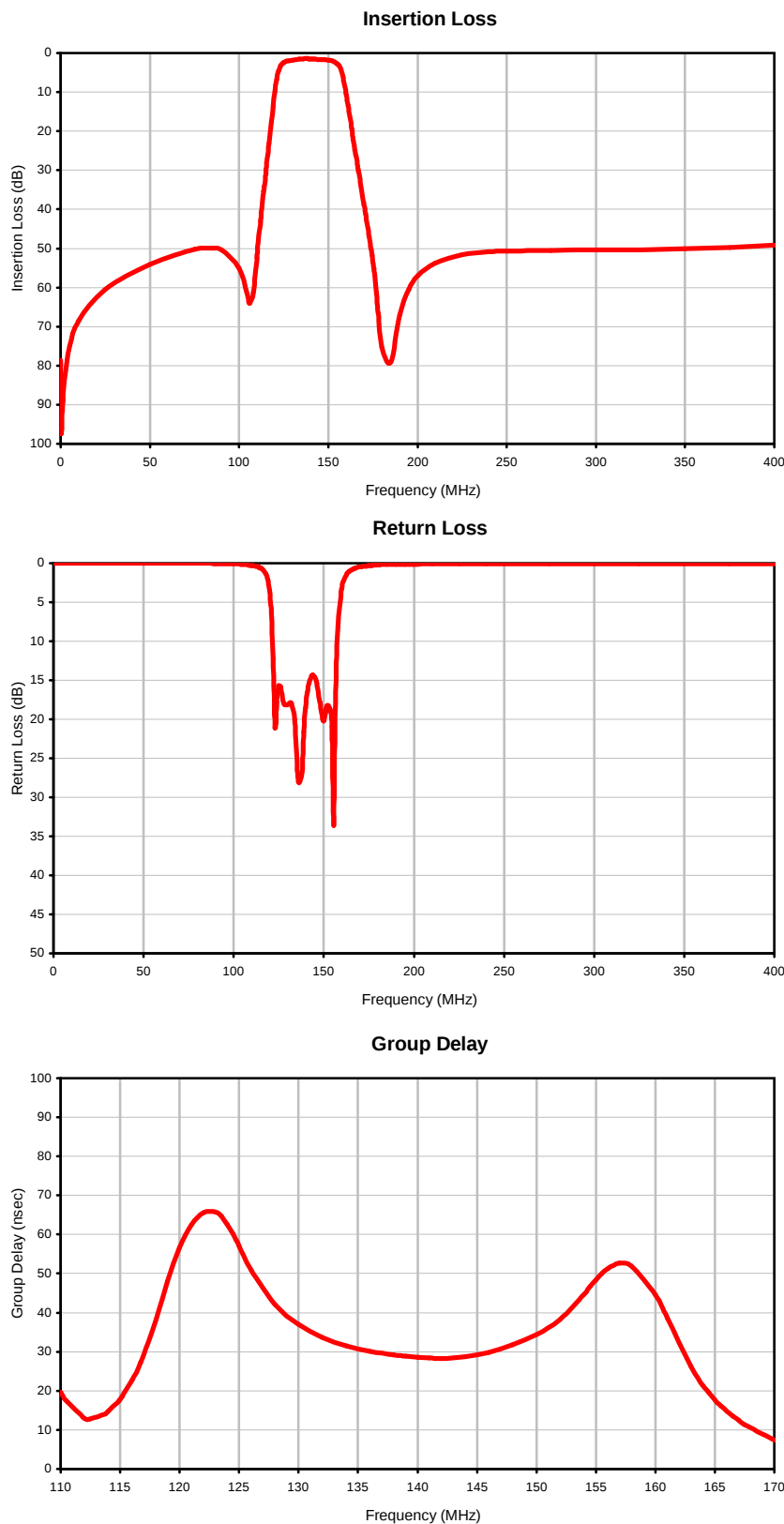
RF/IF MICROWAVE COMPONENTS

REV. X1
BPF-EDU1210
URJ
090409
Page 1 of 1

Typical Performance Data

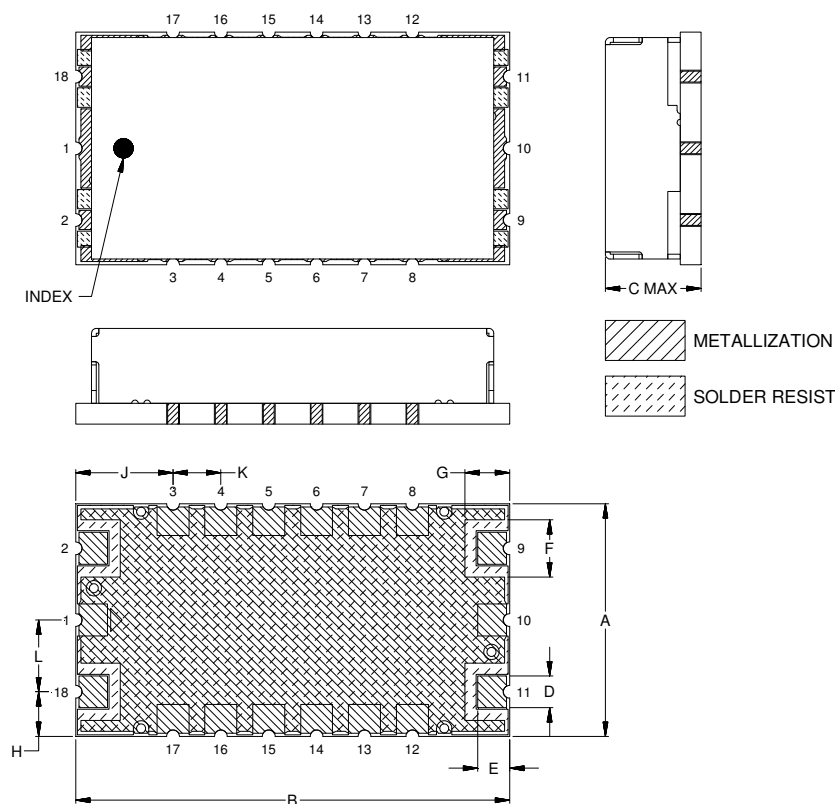
FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
0.03	78.67	0.01	110.00	19.66
10.00	68.58	0.00	115.00	17.79
50.00	54.01	0.01	118.00	38.26
110.00	52.44	0.28	120.00	56.62
115.00	30.24	0.62	123.00	65.75
116.00	26.06	0.78	125.00	57.19
118.00	17.71	1.39	128.00	42.02
120.00	9.78	3.42	130.00	36.95
122.00	4.61	12.24	132.00	33.59
124.00	2.83	17.85	136.00	30.14
125.00	2.47	15.69	138.00	29.23
130.00	1.79	18.17	140.00	28.59
134.00	1.55	20.10	142.00	28.31
140.00	1.50	18.55	144.00	28.66
144.00	1.65	14.34	146.00	29.82
150.00	1.82	20.25	148.00	31.74
155.00	2.74	25.13	150.00	34.35
158.00	5.79	8.19	152.00	38.29
160.00	10.68	3.30	154.00	44.72
163.00	19.32	1.32	158.00	51.95
167.00	30.31	0.68	160.00	44.52
174.00	50.10	0.35	163.00	26.20
200.00	57.05	0.13	165.00	17.67
400.00	49.20	0.05	170.00	7.37

Typical Performance Curves

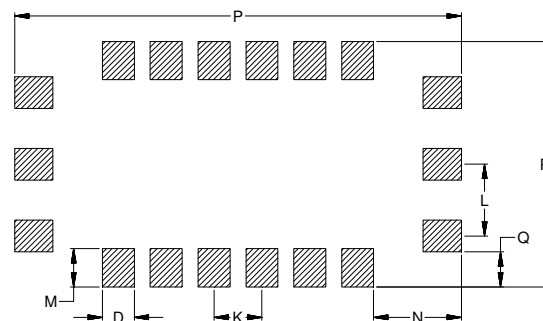


Outline Dimensions

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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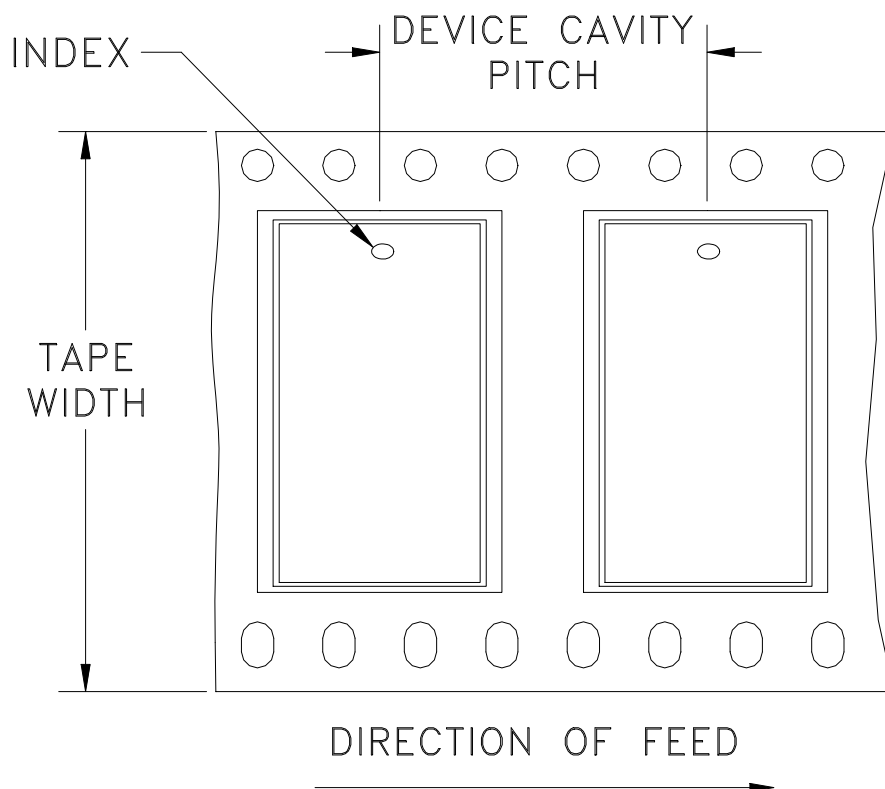
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RF/IF MICROWAVE COMPONENTS



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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