Engineering Development Model

Differential BandPass Filter

BPF-EDU1404+

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 : 99-01-1442

ELECTRICAL SPECIFICATIONS 200Ω @ +25°C				
Parameter	**Min.**	**Typ.**	**Max.**	**Units**
Passband (Loss < 3.5 dB)	90		180	MHz
Stop Band (Loss > 40dB)	0.5		56	MHz
Stop Band (Loss > 20 dB)	56		66	MHz
Stop Band (Loss > 20 dB)	220		260	MHz
Stop Band (Loss > 40dB)	260		3000	MHz
Passband VSWR		1.5	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 dBm

PIN CONNECTIONS	
Input	1,2
Output	7,8
Not Connected	-
Case Ground	3,4,5 and 6

Band Pass Filter BPF-EDU1404+

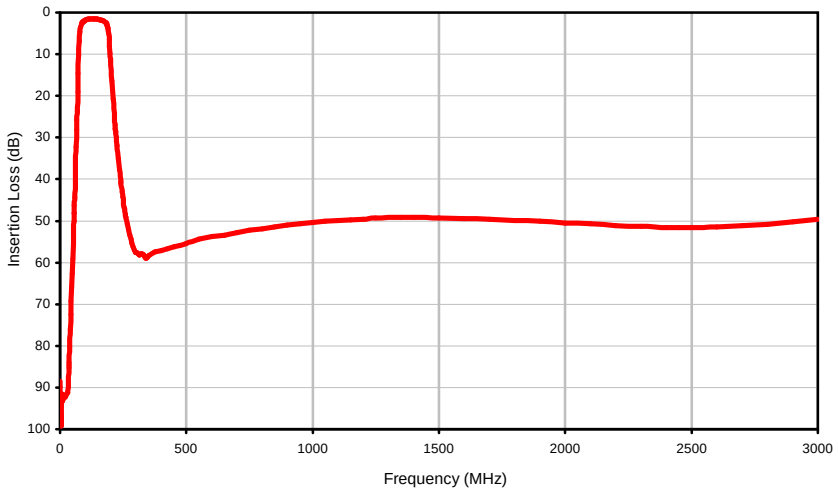
Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)
0.5	88.50	0.23
40	76.01	0.39
50	59.11	0.51
56	48.24	0.65
66	28.07	1.16
72	14.56	2.62
76	6.84	7.20
80	3.57	19.00
90	2.29	16.30
100	1.85	19.16
135	1.51	26.68
160	1.79	13.58
180	2.29	24.95
187	3.17	17.63
190	4.13	11.15
196	8.07	4.40
205	16.36	1.50
220	28.49	0.60
260	49.22	0.24
325	57.92	0.14
1000	50.38	0.13
1500	49.29	0.15
2000	50.50	0.18
3000	49.55	0.28

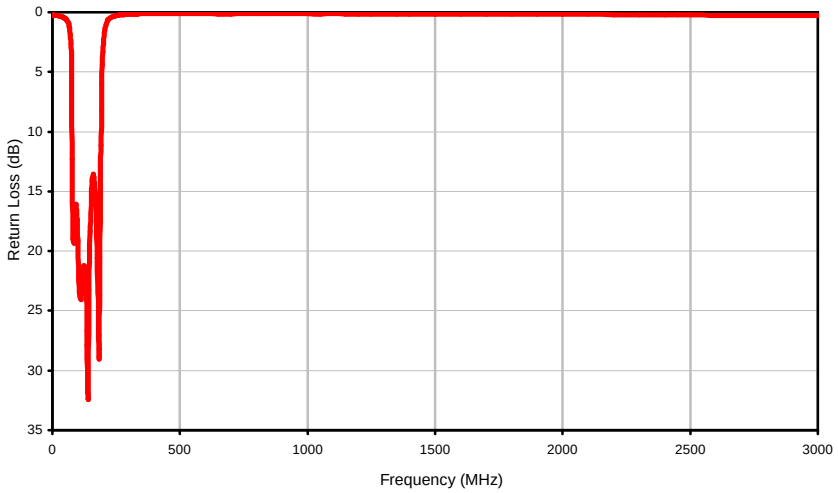
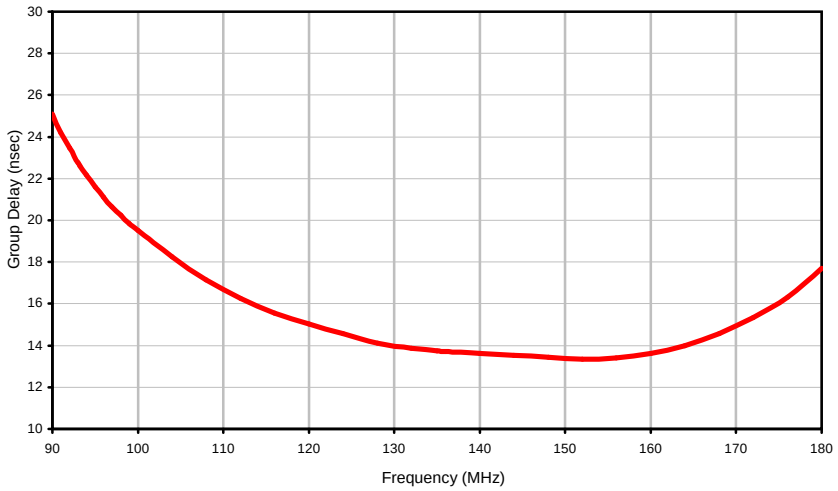
FREQUENCY (MHz)	GROUP DELAY (nsec)
90	25.08
91	24.20
93	22.77
94	22.17
95	21.61
96	21.10
98	20.25
100	19.50
124	14.56
128	14.12
132	13.86
135	13.76
140	13.61
144	13.53
148	13.45
152	13.33
156	13.40
160	13.63
164	13.98
168	14.56
176	16.33
180	17.71

Typical Performance Curves

Insertion Loss



Return Loss



Group Delay