

Engineering Development Model

Differential BandPass Filter Surface Mount

BPF-EDU1404+

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.



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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



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



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IF/RF MICROWAVE COMPONENTS



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Band Pass Filter

BPF-EDU1404+

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
0.5	88.50	0.23	90	25.08
40	76.01	0.39	91	24.20
50	59.11	0.51	93	22.77
56	48.24	0.65	94	22.17
66	28.07	1.16	95	21.61
72	14.56	2.62	96	21.10
76	6.84	7.20	98	20.25
80	3.57	19.00	100	19.50
90	2.29	16.30	124	14.56
100	1.85	19.16	128	14.12
135	1.51	26.68	132	13.86
160	1.79	13.58	135	13.76
180	2.29	24.95	140	13.61
187	3.17	17.63	144	13.53
190	4.13	11.15	148	13.45
196	8.07	4.40	152	13.33
205	16.36	1.50	156	13.40
220	28.49	0.60	160	13.63
260	49.22	0.24	164	13.98
325	57.92	0.14	168	14.56
1000	50.38	0.13	176	16.33
1500	49.29	0.15	180	17.71
2000	50.50	0.18		
3000	49.55	0.28		

Typical Performance Curves

