

Band Pass Filter

BPF-EDU2047

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.



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99-01-2078

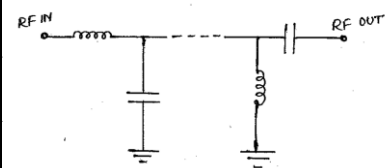
ELECTRICAL SPECIFICATIONS 50Ω @ +25°C

Parameter	Min.	Typ.	Max.	Units
Passband (Loss < 7 dB)	185		265	MHz
Centre frequency		225		MHz
Low Band (Loss > 20 dB)	DC	150		MHz
High Band (Loss > 20 dB)		300	4000	MHz
Passband VSWR		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	0.1 W



PIN CONNECTIONS

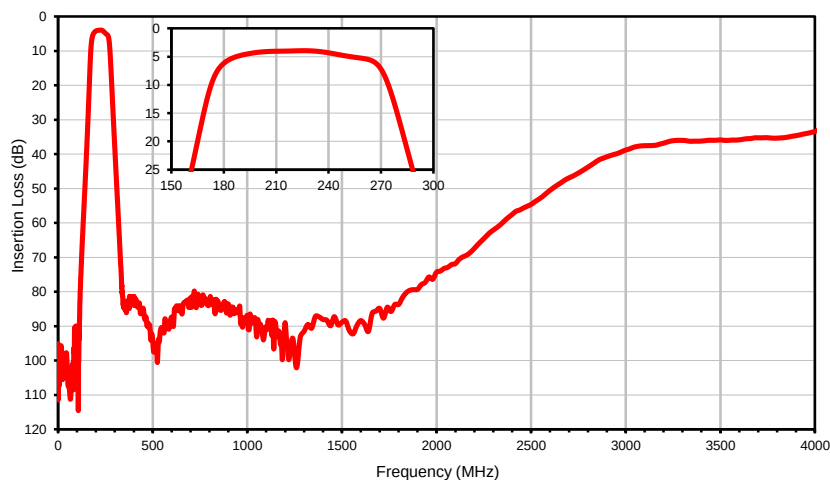
Input	1
Output	8
Ground	2-7,9-14

Typical Performance Data

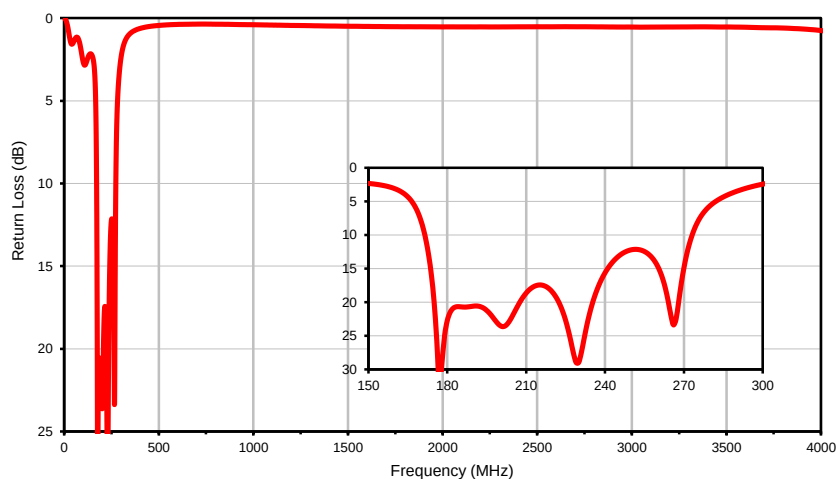
FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
1.0	100.59	0.00	185	28.62
10.0	97.65	0.14	190	25.77
45.0	97.95	1.55	195	23.85
73.0	102.11	1.20	200	22.53
100.0	99.42	2.62	205	21.55
110.0	97.06	2.84	210	20.76
115.0	83.57	2.75	215	20.22
130.0	63.30	2.27	220	19.99
158.0	29.94	2.84	222	19.97
165.0	20.07	4.32	224	19.99
185.0	5.26	20.69	225	20.00
220.0	3.98	18.50	226	20.02
225.0	3.95	22.69	228	20.07
265.0	5.76	21.88	230	20.12
284.0	20.37	4.55	235	20.22
293.0	30.62	3.12	240	20.33
320.0	60.17	1.44	242	20.40
335.0	76.66	1.11	248	20.85
450.0	84.78	0.51	250	21.14
800.0	82.79	0.37	255	22.39
1200.0	88.99	0.44	260	24.73
1500.0	88.90	0.49	262	26.00
2500.0	54.62	0.52	264	27.37
4000.0	33.40	0.75	265	28.03

Typical Performance Curves

Insertion Loss



Return Loss



Group Delay

