Engineering Development Model

Band Pass Filter BPF-EDU1953

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.

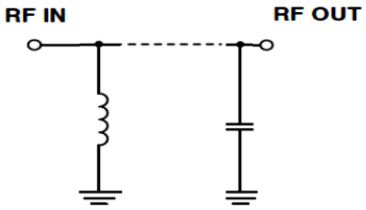
Please click "Back", and then click "Contact Us" for Applications support.

99-01-OPU518

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C

Parameter	Min.	Typ.	Max.	Units
Passband (Loss - 6 dB Typ)	101		107	MHz
Centre frequency		104		MHz
Low Band (Loss > 20 dB)	DC	94		MHz
High Band (Loss > 20 dB)		114	2000	MHz
Passband VSWR		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	0.1 W

PIN CONNECTIONS

Input	1
Output	6
Ground	2,3,4,5,7,8,9,10

Surface Mount Band Pass Filter BPF-EDU1953

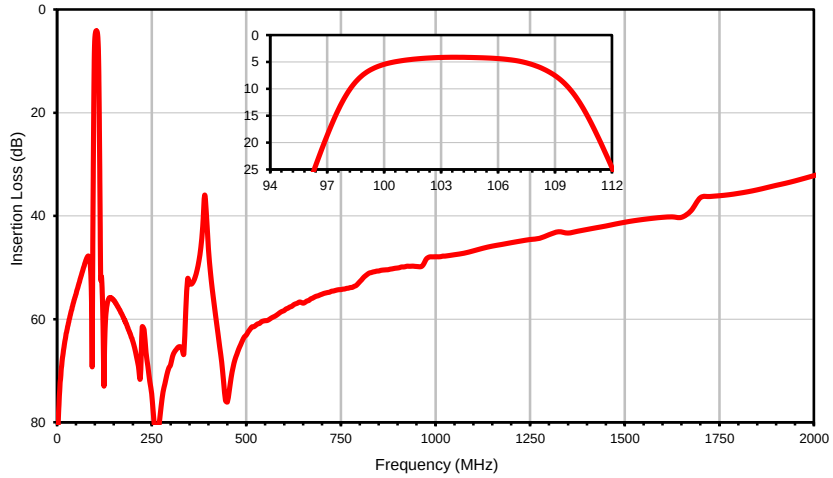
Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
1.0	82.92	0.04	101.0	102.33
10.0	70.84	0.04	101.2	99.66
20.0	64.56	0.04	101.4	97.28
50.0	55.17	0.06	101.6	95.16
65.0	51.27	0.09	101.8	93.27
70.0	50.01	0.10	102.0	91.63
88.0	49.69	0.46	102.2	90.16
90.6	54.81	0.71	102.4	88.89
94.0	51.13	1.65	102.6	87.78
95.8	30.22	3.30	102.8	86.77
96.8	20.48	5.63	103.0	85.94
101.0	4.71	15.00	103.2	85.20
104.0	4.12	12.80	103.4	84.58
107.0	4.76	21.13	103.6	84.07
111.4	19.93	2.14	103.8	83.68
112.6	29.55	1.31	104.0	83.42
114.0	42.13	0.88	104.4	83.24
450.0	76.05	0.06	104.8	83.63
700.0	55.17	0.05	105.0	84.09
900.0	50.09	0.02	105.4	85.45
1200.0	45.19	0.02	105.8	87.50
1500.0	41.23	0.04	106.0	88.76
1750.0	36.09	0.09	106.6	93.37
2000.0	32.20	0.16	107.0	96.94

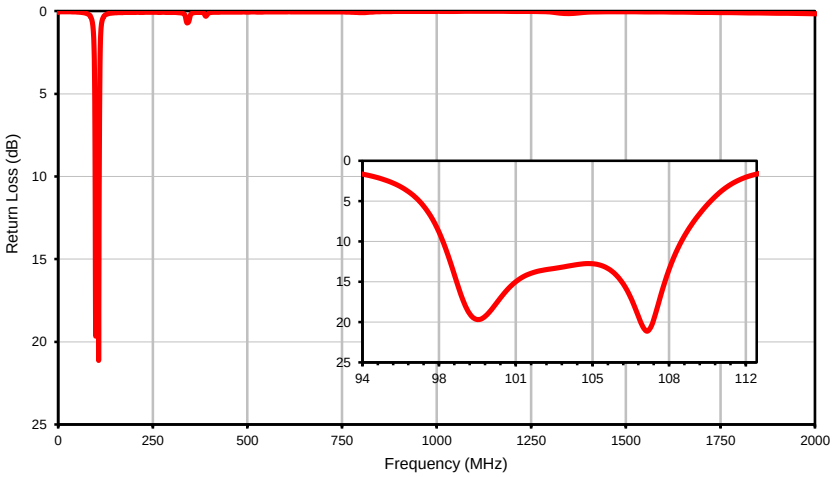
Surface Mount Band Pass Filter BPF-EDU1953

Typical Performance Curves

Insertion Loss



Return Loss



Group Delay