Engineering Development Model

Band Pass Cavity Filter ZVBP-EDU2205

Coaxial

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.

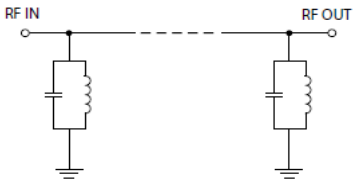
Please click "Back", and then click "Contact Us" for Applications support.

CASE STYLE: 99-01-EDU2205-2

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C

Parameter	Min.	Typ.	Max.	Units
Passband (Loss < 3 dB)	11200		11400	MHz
Centre frequency (Loss < 2 dB)		11300		MHz
Low Band (Loss > 60 dB)	DC	10940		MHz
Low Band (Loss > 20 dB)	10940	11120		MHz
High Band (Loss > 20 dB)		11490	11680	MHz
High Band (Loss > 60 dB)		11680	17000	MHz
Passband VSWR		1.5		(:1)
Stopband VSWR		19		(:1)

Functional Schematic



MAXIMUM RATINGS

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	10W

PIN CONNECTIONS

Input	SMA Female
Output	SMA Female

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Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
100	82.90	0.03	11200	9.04
500	98.83	0.04	11205	8.44
1000	94.28	0.09	11210	7.98
10940	70.17	0.20	11215	7.64
11000	59.77	0.25	11220	7.37
11150	15.45	1.42	11230	6.93
11120	28.59	0.64	11240	6.58
11150	15.45	1.42	11250	6.33
11175	3.79	9.88	11260	6.18
11200	2.00	18.39	11270	6.07
11250	1.60	18.56	11280	5.98
11300	1.55	17.56	11290	5.90
11350	1.67	18.93	11300	5.84
11400	2.03	18.93	11310	5.83
11425	2.95	17.10	11320	5.86
11450	11.04	2.24	11330	5.93
11490	28.55	0.58	11340	5.99
11550	45.96	0.32	11350	6.07
11600	56.52	0.26	11360	6.20
11680	69.48	0.22	11370	6.43
12000	95.78	0.19	11380	6.75
15000	104.06	0.39	11390	7.15
17000	103.53	0.27	11395	7.38
20000	99.79	0.21	11400	7.64

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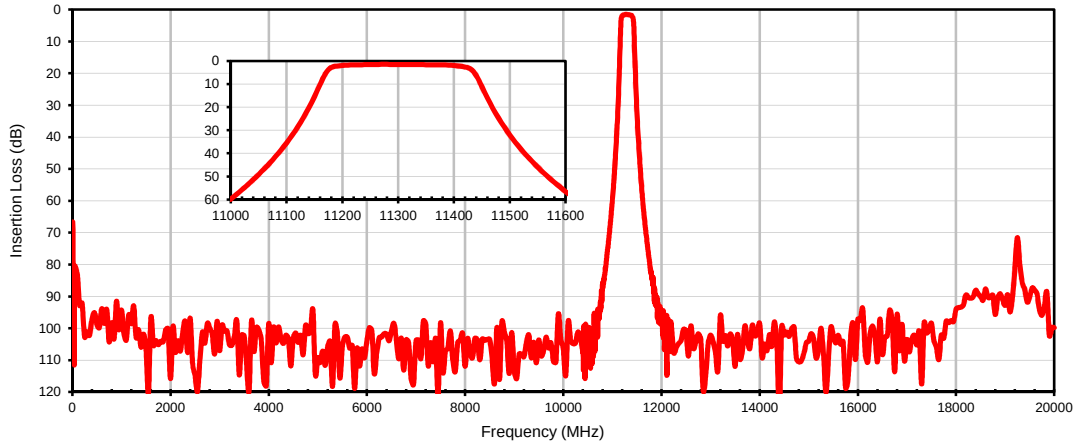
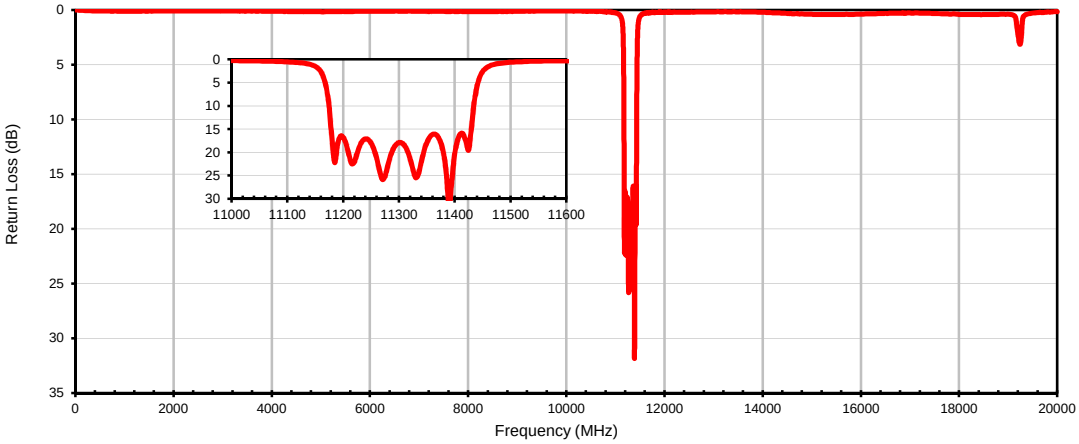
Typical Performance Curves

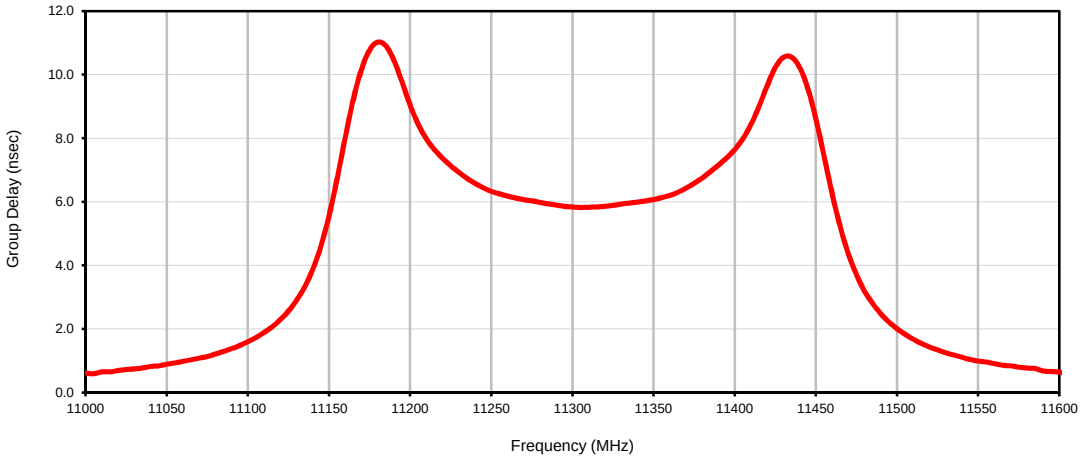
Insertion Loss



Return Loss



Group Delay



Mini-Circuits

Environmental Specifications ENV46

All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-55° to 100°C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Humidity	90 to 95% RH, 40°C, 96 hours; Units may require bake-out after humidity to restore full performance.	MIL-STD-202, Method 103, Condintion B
Thermal Shock	-55° to 100°C, 100 cycles	MIL-STD-202, Method 107, Condition A-3, except +100°C
Vibration (High Frequency)	20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D
Mechanical Shock	50g, 11ms half-sine, 3 shocks each direction 3 axes (total 18)	MIL-STD-202, Method 213, Condition A