

Band Pass Filter Coaxial

SBP-EDU2522+

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.

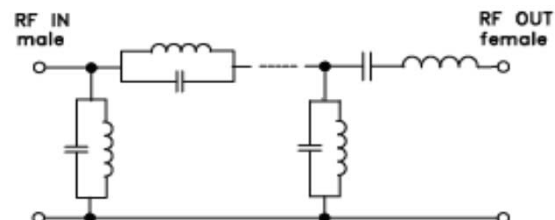
CASE STYLE: FF99

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C

Parameter	Min.	Typ.	Max.	Units
Passband (Loss < 2 dB)	36	-	44	MHz
Centre frequency	-	40	-	MHz
Low Band (Loss > 40 dB)	DC	9	-	MHz
Low Band (Loss > 20 dB)	-	9	25	MHz
High Band (Loss > 20 dB)	65	-	1000	MHz
Passband VSWR	-	1.6	-	(: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	0.5 W



COAXIAL CONNECTIONS	
Input	SMA MALE
Output	SMA FEMALE

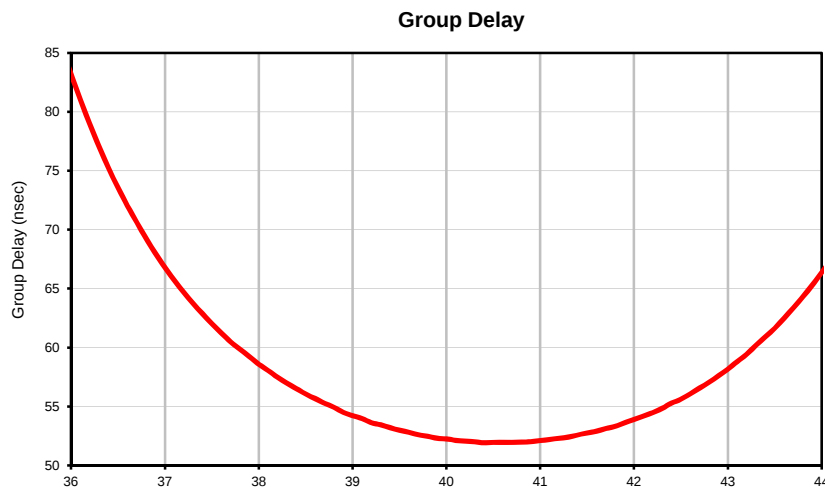
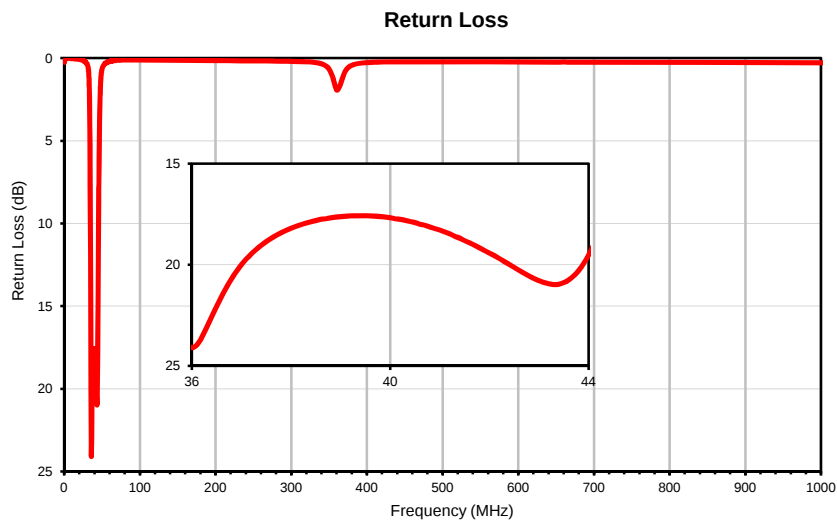
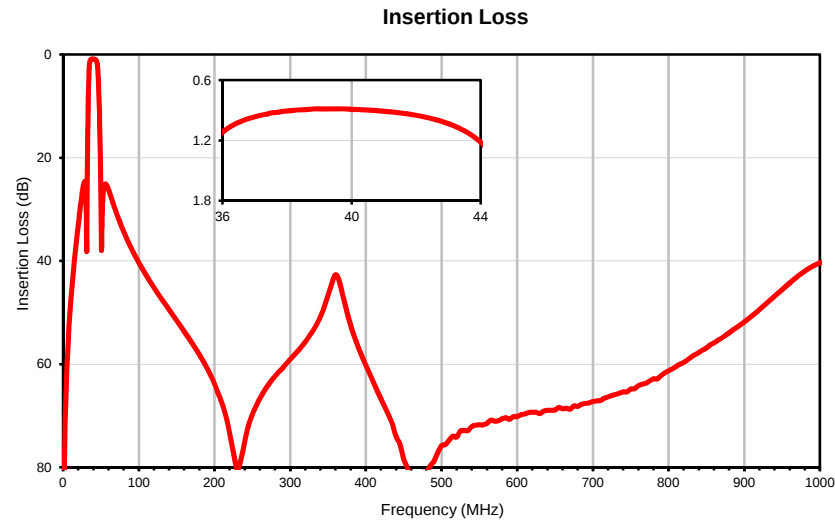
+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
1.0	87.46	0.08	36.00	83.17
5.0	60.94	0.01	36.50	73.58
9.0	50.19	0.03	37.00	66.79
15.0	39.89	0.05	37.50	62.04
20.0	33.10	0.07	38.00	58.58
22.0	30.59	0.09	38.50	56.04
25.0	27.12	0.14	39.00	54.22
33.0	11.60	1.49	39.50	52.98
34.0	4.59	4.68	40.00	52.25
34.4	3.02	7.33	40.20	52.06
36.0	1.12	24.09	40.50	51.96
40.0	0.89	17.67	40.80	51.99
44.0	1.22	19.51	40.00	52.25
46.0	3.16	7.09	41.20	52.31
48.0	11.47	1.65	41.50	52.76
49.3	20.53	0.85	41.70	53.13
50.0	27.46	0.68	41.80	53.32
55.0	25.17	0.30	42.00	53.90
65.0	28.35	0.15	42.50	55.62
70.0	30.49	0.13	42.60	56.07
500.0	75.81	0.23	42.80	57.04
750.0	64.82	0.25	43.00	58.17
900.0	51.82	0.27	43.50	61.64
1000.0	40.37	0.28	44.00	66.38

Typical Performance Curves



FF56
FF99

Outline Dimensions



CASE #.	A	B	C	D	E	WT GRAMS
FF56	--	.46 (11.68)	--	1.70 (43.18)	.312 (7.92)	18.0
FF99	--	.70 (17.78)	--	1.98 (50.29)		42.0

Dimensions are in inches (mm). Tolerances: 2Pl. ± .03; 3Pl. ± .015

Notes:

1. Case material: Brass.
2. Case finish: Nickel plate.



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
Barometric Pressure	100,000 Feet	MIL-STD-202, Method 105, Condition D
Humidity	90% RH, 65°C Units may require bake-out after humidity to restore full performance.	MIL-STD-202, Method 103
Thermal Shock	-65° to 125°C, 5 cycles	MIL-STD-202, Method 107, Condition B
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	100g, 6ms sawtooth, 3 shocks each direction 3 axes (total 18)	MIL-STD-202, Method 213, Condition I