

Coaxial Low Pass Filter

50Ω DC to 2200 MHz

Maximum Ratings

Operating Temperature -55°C to 100°C

Storage Temperature -55°C to 100°C

RF Power Input 0.5W max.

Permanent damage may occur if any of these limits are exceeded.

Features

- good attenuation rate, 1.35 typ. 20dB/ 3dB BW ratio
- rugged shielded case
- other SLP models available with wide selection of cut-off frequencies

Applications

- lab use
- test equipment
- video equipment

SLP-2400+



Generic photo used for illustration purposes only

CASE STYLE: FF99

Connectors Model

SMA SLP-2400+

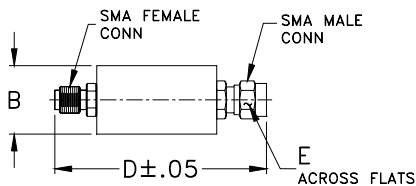
+RoHS Compliant

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

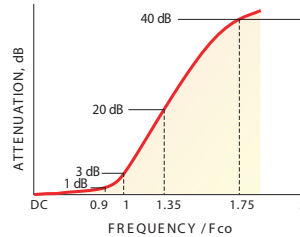
Low Pass Filter Electrical Specifications

PASSBAND (MHz)	fco (MHz) Nom.	STOPBAND (MHz)		VSWR (:1)	
(loss < 1 dB)	(loss 3 dB)	(loss > 20 dB)	(loss > 40 dB)	Passband Typ.	Stopband Typ.
DC-2200	2400	3150-4000	4000-6000	1.3	18

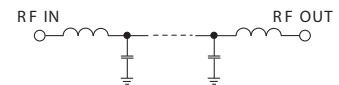
Outline Drawing



typical frequency response



electrical schematic

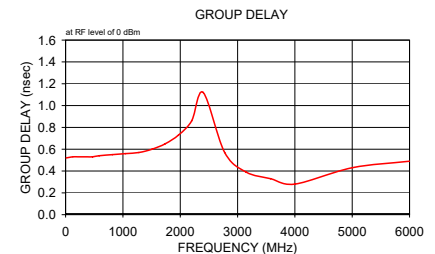
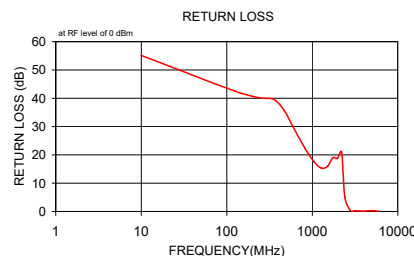


Outline Dimensions (inch/mm)

B	D	E	wt
.67	1.98	.312	grams
17.02	50.29	7.92	42.0

Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
$\bar{x}$	σ			
10.00	0.01	0.00	10.00	0.52
125.26	0.04	0.00	125.26	0.53
240.52	0.06	0.00	240.52	0.53
355.78	0.07	0.00	355.78	0.53
471.05	0.09	0.00	471.05	0.53
586.31	0.11	0.00	586.31	0.54
816.84	0.15	0.01	816.84	0.55
1047.36	0.22	0.02	1047.36	0.56
1277.89	0.29	0.03	1277.89	0.57
1508.42	0.30	0.03	1508.42	0.60
1738.94	0.29	0.03	1738.94	0.65
1969.47	0.34	0.02	1969.47	0.73
2200.00	0.40	0.09	2200.00	0.86
2400.00	2.33	0.51	2400.00	1.12
2775.00	15.86	0.66	2775.00	0.57
3150.00	28.00	0.65	3150.00	0.39
3575.00	39.27	0.75	3575.00	0.33
4000.00	48.63	0.94	4000.00	0.28
5000.00	65.70	2.14	5000.00	0.43
6000.00	63.98	12.24	6000.00	0.49



Notes

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuits' applicable established test performance criteria and measurement instructions.
- C. The parts covered by this specification document are subject to Mini-Circuits' standard limited warranty and terms and conditions (collectively, "Standard Terms"). Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCStore/terms.jsp



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REV. C
M151107
SLP-2400+
200522

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Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
10.0	0.05	31.11	10.0	0.310
100.0	0.09	42.09	100.0	0.520
200.0	0.09	35.95	200.0	0.530
300.0	0.12	31.55	300.0	0.530
400.0	0.14	28.29	400.0	0.520
500.0	0.16	25.79	500.0	0.530
600.0	0.18	23.88	600.0	0.530
700.0	0.20	22.40	700.0	0.520
800.0	0.21	21.25	800.0	0.530
900.0	0.24	20.44	900.0	0.540
1000.0	0.26	20.00	1000.0	0.550
1100.0	0.27	19.98	1100.0	0.550
1200.0	0.27	20.34	1200.0	0.560
1300.0	0.27	21.13	1300.0	0.570
1400.0	0.28	22.61	1400.0	0.580
1500.0	0.28	25.31	1500.0	0.600
1600.0	0.29	28.74	1600.0	0.610
1700.0	0.31	29.21	1700.0	0.630
1800.0	0.33	26.76	1800.0	0.650
1900.0	0.35	25.45	1900.0	0.680
2000.0	0.37	26.89	2000.0	0.710
2100.0	0.42	28.57	2100.0	0.770
2200.0	0.55	17.82	2200.0	0.860
2300.0	1.01	10.34	2300.0	0.950
2400.0	2.22	5.58	2400.0	1.000
2500.0	4.44	2.83	2500.0	0.930
2600.0	7.38	1.44	2600.0	0.790
2800.0	13.96	0.52	2800.0	0.580
2900.0	17.11	0.42	2900.0	0.510
3000.0	20.18	0.36	2980.0	0.470
3100.0	23.11	0.33	3000.0	0.450
3400.0	31.12	0.28	3100.0	0.420
3700.0	38.39	0.21	3400.0	0.330
4000.0	45.04	0.28	3700.0	0.310
5000.0	63.33	0.23	4000.0	0.270
5500.0	69.56	0.26	4500.0	0.230
6000.0	81.77	0.25	5000.0	0.230
6500.0	55.57	0.27	5500.0	0.230
7000.0	62.64	0.25	6500.0	1.360
7500.0	60.68	0.24	7000.0	0.150
8000.0	65.25	0.25	7500.0	0.380
8500.0	74.53	0.26	8000.0	0.160
9000.0	66.47	0.24	9000.0	0.080
9500.0	57.82	0.27	9500.0	0.100
10000.0	50.52	0.28	10000.0	0.170

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060921
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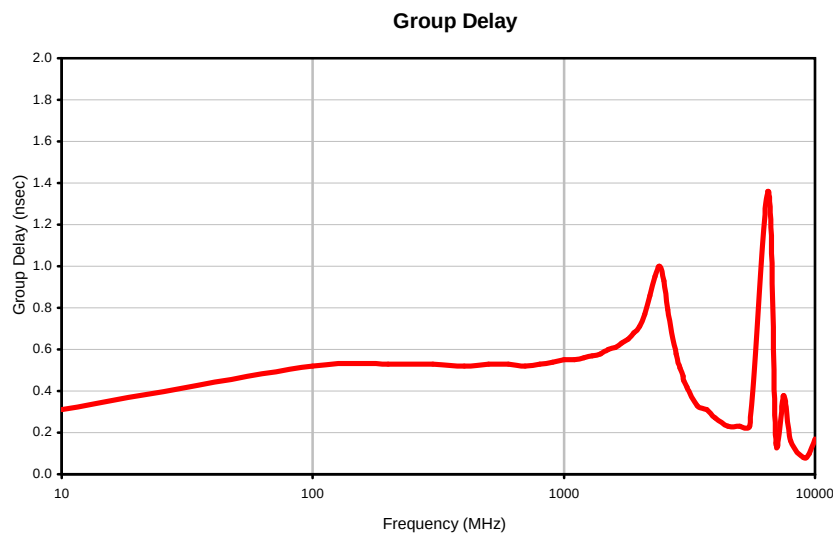
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Typical Performance Curves



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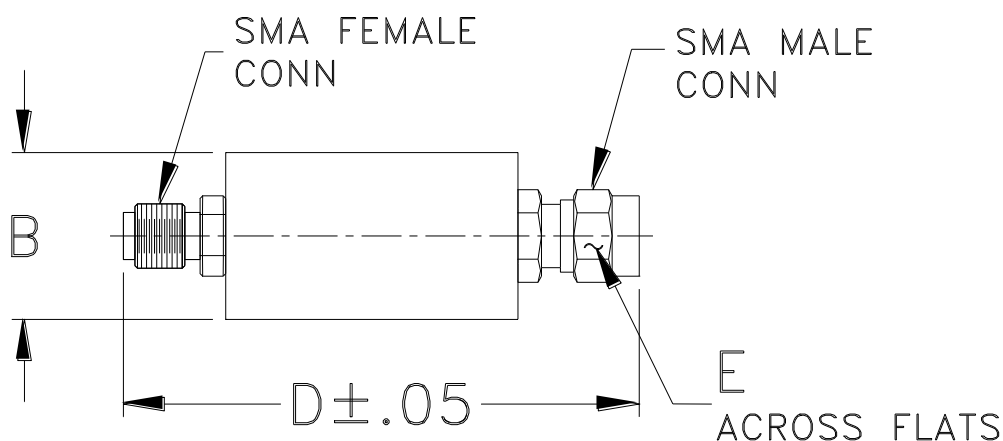
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FF56
FF99

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