

Coaxial

Low Pass Filter

50Ω DC to 580 MHz

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W max.

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-600+
SLP-600

CASE STYLE: FF99

Connectors	Model	Price	Qty.
SMA	SLP-600(+)	\$34.95 ea.	(1-9)

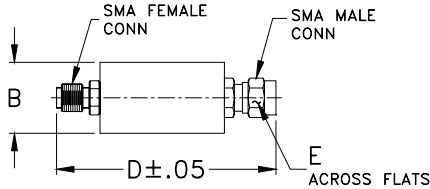
+ RoHS compliant in accordance
with EU Directive (2002/95/EC)

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-580	640	840-1120	1120-2000	1.7	18

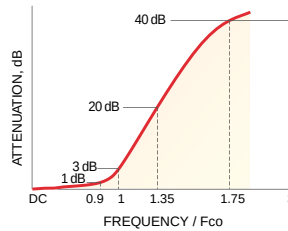
Outline Drawing



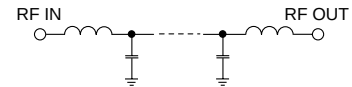
Outline Dimensions (inch/mm)

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

typical frequency response

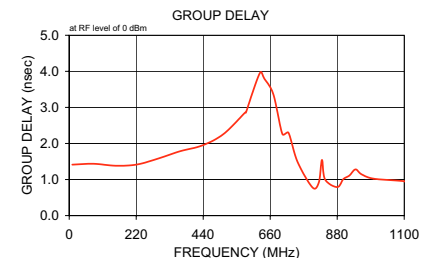
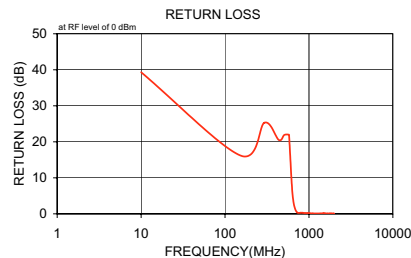


electrical schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
$\bar{x}$	σ			
10.00	0.01	0.1	10.00	1.41
152.50	0.22	0.2	80.00	1.44
295.00	0.20	0.1	152.50	1.38
437.50	0.28	0.1	222.50	1.42
507.50	0.37	0.1	295.00	1.59
577.50	0.59	0.1	365.00	1.79
580.00	0.60	0.1	437.50	1.95
620.00	1.50	0.3	507.50	2.27
640.00	2.98	0.4	577.50	2.86
670.00	7.09	0.6	580.00	2.85
720.00	15.52	2.0	600.00	3.36
800.00	28.44	4.7	620.00	3.84
820.00	31.52	5.4	630.00	4.98
830.00	33.06	5.7	640.00	3.81
840.00	34.63	6.1	670.00	3.37
880.00	41.22	8.0	700.00	2.26
920.00	48.84	9.9	720.00	2.30
960.00	58.62	9.9	750.00	1.48
1000.00	59.95	9.9	800.00	0.77
1100.00	59.89	8.4	820.00	0.93
1120.00	62.05	8.8	830.00	1.54
1360.00	71.05	2.3	840.00	1.00
1502.50	73.53	9.3	880.00	0.79
1572.50	70.71	4.9	900.00	1.01
1650.00	67.12	3.4	920.00	1.11
1750.00	67.73	7.7	940.00	1.28
1800.00	70.74	9.5	960.00	1.15
1850.00	68.64	9.1	1000.00	1.02
1950.00	68.21	7.1	1100.00	1.95
2000.00	65.82	4.6	1120.00	0.85



INTERNET <http://www.minicircuits.com>

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661

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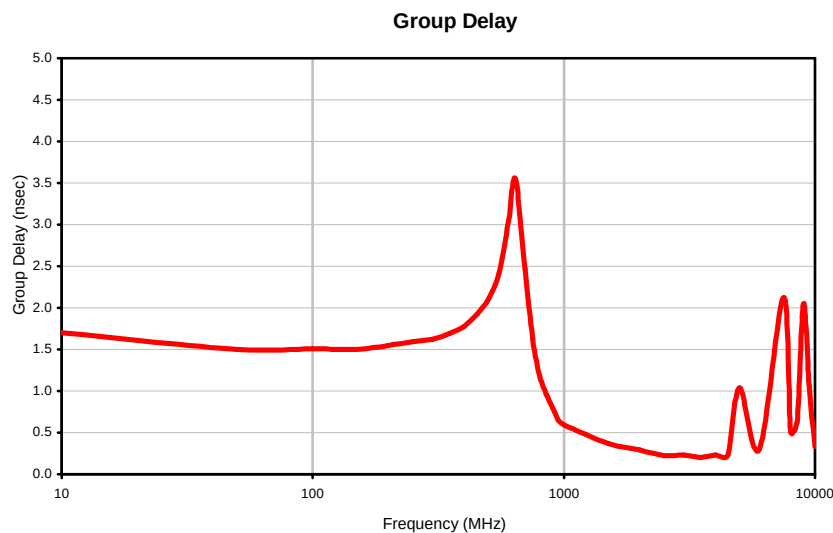
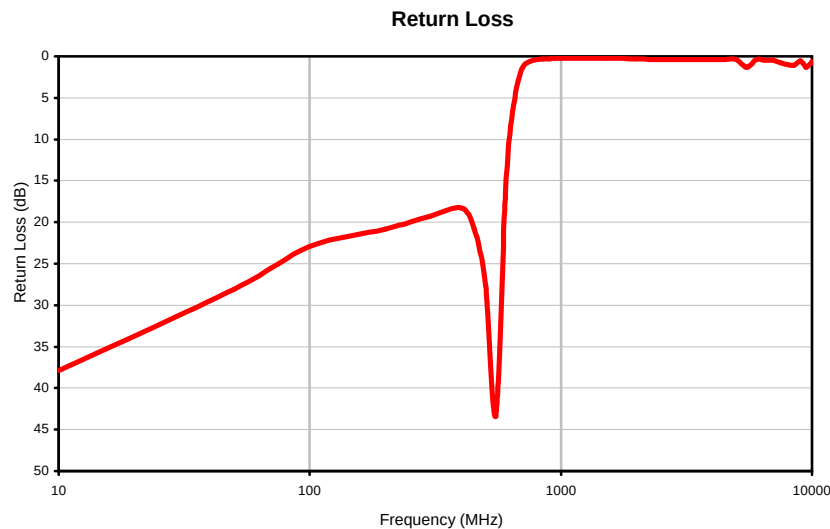
Mini-Circuits ISO 9001 & ISO 14001 Certified

REV. A
M98898
SLP-600
061024

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
10.0	0.15	37.91	10.0	1.700
50.0	0.10	28.09	50.0	1.500
100.0	0.14	22.89	100.0	1.510
200.0	0.21	20.84	150.0	1.500
300.0	0.29	19.27	200.0	1.550
400.0	0.36	18.30	250.0	1.590
450.0	0.36	20.78	300.0	1.620
500.0	0.39	27.60	350.0	1.690
550.0	0.45	43.31	400.0	1.780
600.0	0.72	16.49	450.0	1.920
640.0	2.09	6.68	500.0	2.110
700.0	8.63	1.44	550.0	2.410
750.0	15.42	0.61	600.0	3.040
800.0	21.66	0.40	640.0	3.550
850.0	27.21	0.31	700.0	2.470
900.0	32.27	0.28	750.0	1.620
950.0	36.86	0.24	800.0	1.180
1000.0	41.08	0.25	850.0	0.960
1500.0	67.58	0.25	900.0	0.800
2000.0	69.00	0.34	950.0	0.650
2500.0	66.77	0.36	1000.0	0.590
3000.0	65.18	0.39	1500.0	0.370
3500.0	64.35	0.39	2000.0	0.290
4000.0	62.74	0.37	2500.0	0.220
4500.0	58.34	0.35	3000.0	0.230
5000.0	40.94	0.37	3500.0	0.200
5500.0	53.70	1.28	4000.0	0.230
6000.0	41.25	0.39	4500.0	0.230
6500.0	42.60	0.47	5000.0	1.040
7000.0	50.41	0.44	6000.0	0.300
7500.0	28.87	0.75	7500.0	2.120
8000.0	34.82	1.02	8000.0	0.510
8500.0	38.69	1.05	8500.0	0.620
9000.0	37.13	0.53	9000.0	2.050
9500.0	18.17	1.30	9500.0	1.060
10000.0	21.36	0.60	10000.0	0.330

Typical Performance Curves



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED RoHS compliant
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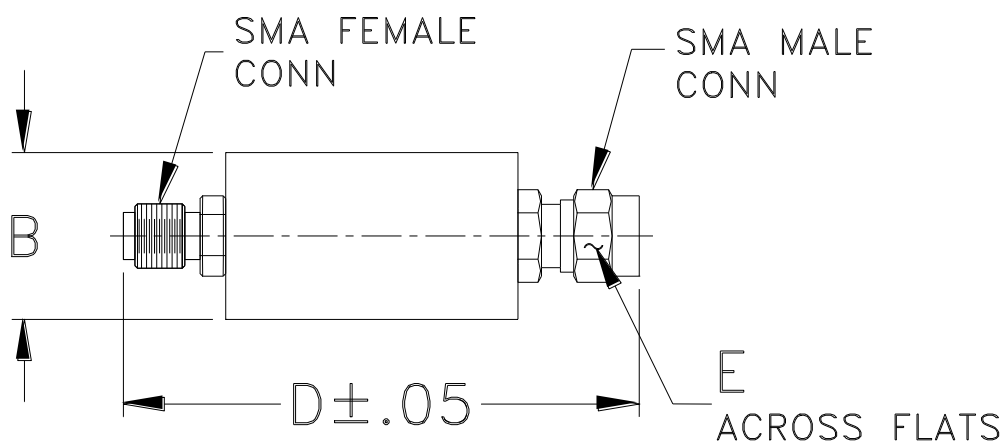
The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



REV. X1
SLP-600+
060921
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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