

Low Pass Filter

SXLP-23+

50Ω DC to 23 MHz

Maximum Ratings

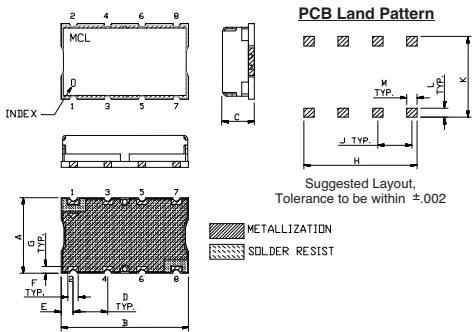
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W Max.

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

Pin Connections

INPUT	1
OUTPUT	8
GROUND	2, 3, 4, 5, 6, 7

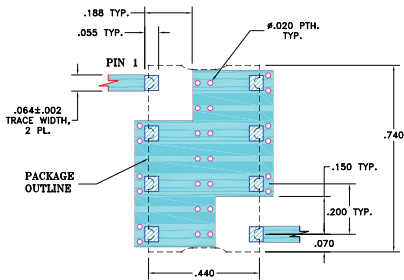
Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	
.44	.74	.27	.200	.07	.060	
11.18	18.80	6.86	5.08	1.78	1.52	
G	H	J	K	L	M	wt.
.040	.660	.200	.470	.055	.060	grams
1.02	16.76	5.08	11.94	1.40	1.52	3.0

Demo Board MCL P/N: TB-368 Suggested PCB Layout (PL-230)

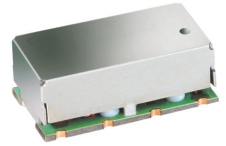


Features

- high rejection
- sharp cut-off
- shielded package
- aqueous washable
- low cost

Applications

- defense communications
- receivers / transmitters
- harmonic rejection



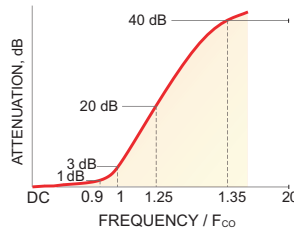
CASE STYLE: HF1139
PRICE: \$ 8.95 ea. QTY (1-9)

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

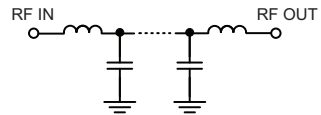
Low Pass Filter Electrical Specifications (T_{AMB} = 25°C)

PASSBAND (MHz)	f _{co} , MHz Nom.	STOPBAND (MHz)		VSWR (:1)	
		(Loss > 20dB)	(Loss > 40dB)	Passband Typ.	Stopband Typ.
DC - 23	25	31 - 34	34 - 500	1.5	18

Typical Frequency Response

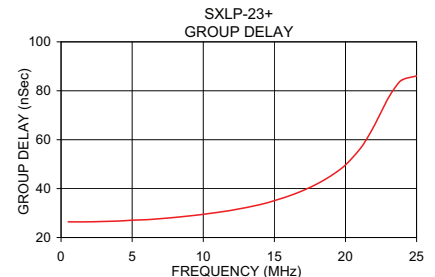
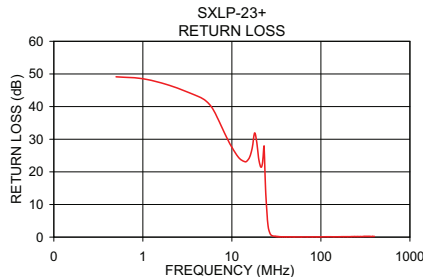
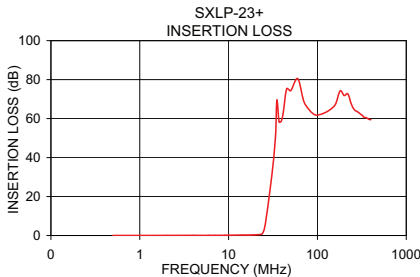


Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)		Return Loss (dB)	Frequency (MHz)	Group Delay (nSec)
	\bar{x}	σ			
0.5	0.05	0.01	49.11	0.5	26.41
5.0	0.08	0.00	41.94	1.0	26.39
10.0	0.15	0.00	27.54	2.0	26.41
20.0	0.35	0.01	24.09	4.0	26.73
23.0	0.58	0.02	27.90	5.0	27.08
24.0	1.00	0.03	13.75	6.0	27.29
25.0	2.70	0.08	5.80	8.0	28.23
25.5	4.30	0.13	3.58	9.0	28.84
26.0	6.42	0.17	2.22	10.0	29.50
27.0	11.43	0.23	0.96	12.0	31.15
29.0	22.00	0.33	0.35	12.0	31.15
31.0	32.70	0.46	0.22	14.0	33.48
34.0	53.83	1.49	0.14	16.0	36.94
50.0	74.31	2.19	0.07	18.0	41.92
100.0	61.81	0.99	0.08	19.0	45.32
200.0	71.86	1.85	0.14	20.0	49.68
300.0	62.65	1.37	0.20	22.0	65.49
400.0	59.44	1.01	0.22	23.0	76.93
500.0	68.98	1.95	0.24	25.0	86.06



For detailed performance specs & shopping online see web site

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicircuits.com

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet 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/MCLStore/terms.jsp.

REV. OR
M112220
EDR-7472/1U
SXLP-23+
URJ/RAV
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