

Low Pass Filter

SXLP-380+

50Ω DC to 380 MHz

Maximum Ratings

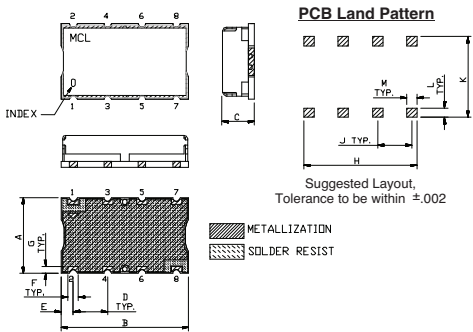
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W Max.

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

Pin Connections

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

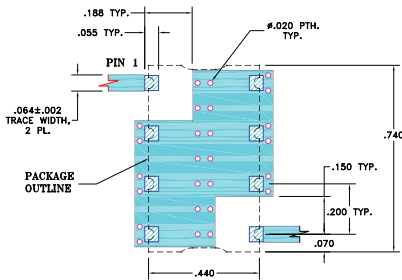
Outline Drawing



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)

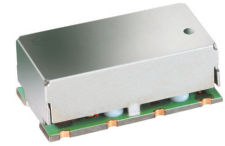


Features

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

Applications

- defense communications
- receivers / transmitters
- harmonic rejection



CASE STYLE: HF1139
 PRICE: \$11.45 ea. QTY (1-9)

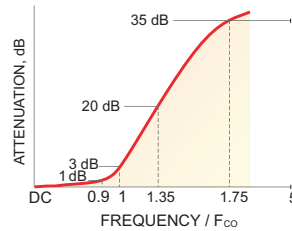
+RoHS Compliant

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

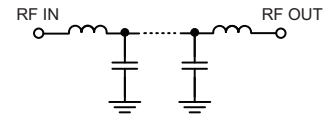
Low Pass Filter Electrical Specifications (T_{AMB} = 25°C)

PASSBAND (MHz)	f _{co} , MHz Nom.	STOPBAND (MHz)		VSWR (:1)	
		(Loss > 20dB)	(Loss > 35dB)	Passband Typ.	Stopband Typ.
DC - 380	440	580 - 750	750 - 2200	1.3	18

Typical Frequency Response

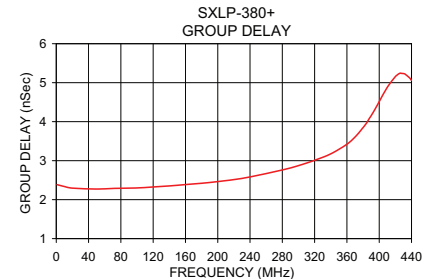
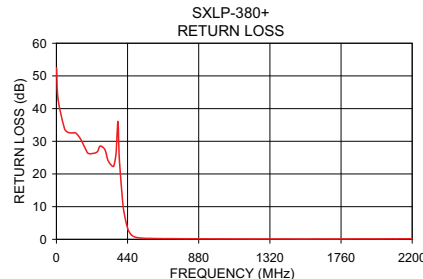
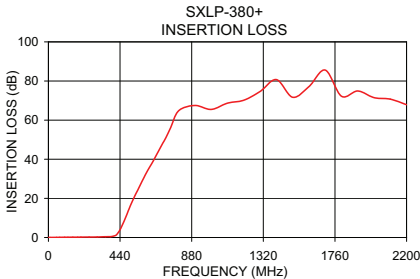


Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)		Return Loss (dB)	Frequency (MHz)	Group Delay (nSec)
	\bar{x}	σ			
1.0	0.02	0.01	52.50	1.0	2.38
10.0	0.05	0.01	42.94	10.0	2.34
50.0	0.08	0.01	33.85	20.0	2.30
100.0	0.12	0.01	32.54	50.0	2.27
300.0	0.28	0.01	27.42	70.0	2.29
380.0	0.47	0.02	36.10	100.0	2.30
410.0	0.74	0.09	11.33	120.0	2.33
420.0	1.15	0.19	7.78	140.0	2.35
440.0	3.25	0.42	3.44	160.0	2.39
460.0	6.77	0.49	1.55	180.0	2.42
500.0	15.18	0.45	0.54	200.0	2.46
580.0	29.49	0.42	0.28	220.0	2.51
750.0	54.77	2.27	0.19	240.0	2.58
900.0	67.61	2.84	0.16	280.0	2.76
1000.0	67.09	2.24	0.13	300.0	2.87
1200.0	71.02	2.58	0.12	340.0	3.18
1500.0	68.08	4.29	0.10	380.0	3.85
2000.0	66.96	6.58	0.14	400.0	4.51
2100.0	64.85	4.98	0.16	420.0	5.16
2200.0	64.12	5.39	0.18	440.0	5.06



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.

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 M112220
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 Page 1 of 1