

Low Pass Filter

SXLP-420+

50Ω DC to 420 MHz

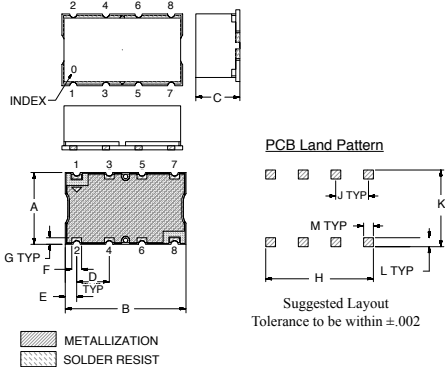
Maximum Ratings

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

Pin Connections

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

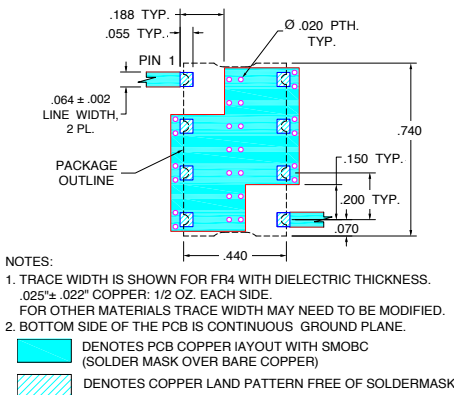
Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	
.440	.740	.270	.200	0.70	0.60	
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)

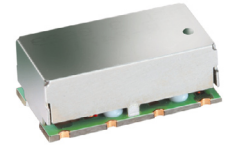


Features

- 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)

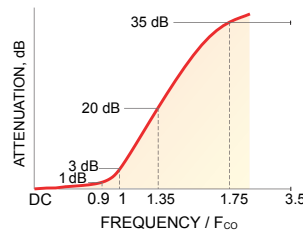
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

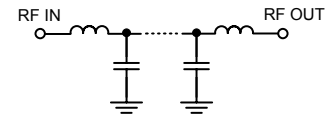
Low Pass Filter Electrical Specifications (T_{AMB} = 25°C)

PASSBAND (MHz)	f _{co} , MHz Nom.	STOPBAND (MHz)		VSWR (:1)	
		(Loss > 20dB)	(Loss > 35dB)	Passband Typ.	Stopband Typ.
DC - 420	570	750 - 920	920 - 2000	1.7	18

Typical Frequency Response

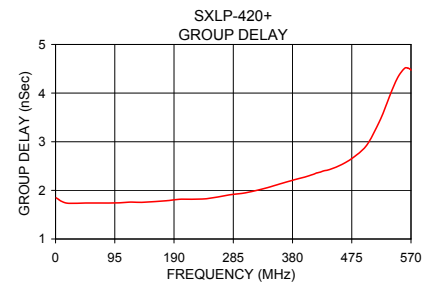
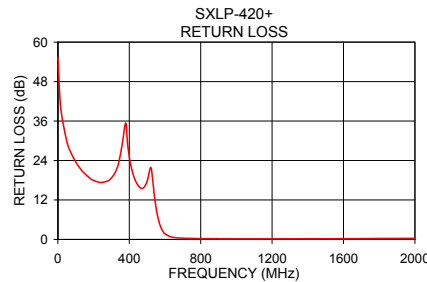
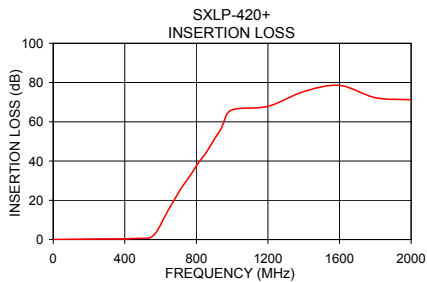


Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)		Return Loss (dB)	Frequency (MHz)	Group Delay (nSec)
	\bar{x}	σ			
1.0	0.01	0.00	55.35	1.0	1.85
5.0	0.02	0.00	50.11	5.0	1.81
20.0	0.04	0.00	38.25	10.0	1.77
70.0	0.09	0.00	26.77	20.0	1.74
180.0	0.22	0.01	18.60	50.0	1.74
420.0	0.41	0.02	20.11	70.0	1.74
530.0	0.71	0.02	18.55	100.0	1.74
550.0	1.28	0.08	9.67	140.0	1.75
570.0	2.92	0.14	4.74	200.0	1.82
600.0	7.45	0.17	1.70	240.0	1.83
640.0	14.59	0.22	0.70	300.0	1.94
750.0	30.94	0.36	0.31	360.0	2.13
920.0	54.26	0.85	0.20	400.0	2.27
1000.0	67.79	1.88	0.19	420.0	2.36
1200.0	70.39	1.78	0.18	480.0	2.70
1400.0	82.64	6.70	0.20	500.0	2.95
1600.0	76.83	1.97	0.23	530.0	3.75
1800.0	70.59	1.10	0.29	550.0	4.35
2000.0	68.34	1.77	0.33	570.0	4.47



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



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RF/IF MICROWAVE COMPONENTS

REV. OR
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EDR-7479/1U
SXLP-420+
URJ/RAV
071028
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