

Surface Mount Low Pass Filter

50Ω DC to 78 MHz

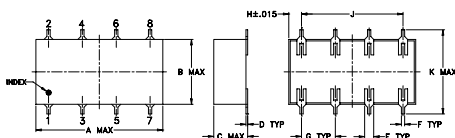
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input	0.5W max.
Permanent damage may occur if any of these limits are exceeded.	

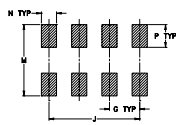
Pin Connections

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

Outline Drawing



PCB Land Pattern

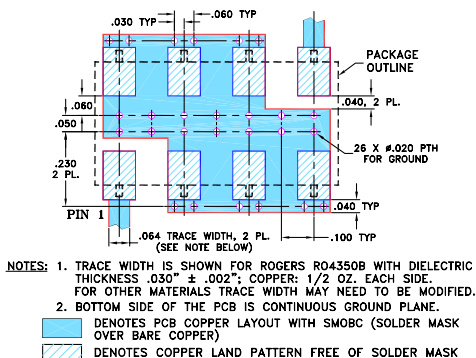


Suggested Layout,
Tolerance to be within ±.002

Outline Dimensions (inch)

A	B	C	D	E	F	G
.75	.38	.20	.010	.050	.020	.200
19.05	9.65	5.08	0.25	1.27	0.51	5.08
H	J	K	M	N	P	wt
.075	.600	.450	.470	.100	.150	grams
1.91	15.24	11.43	11.94	2.54	3.81	1.6

Demo Board MCL P/N: TB-187+ Suggested PCB Layout (PL-049)



Features

- 7-section elliptic function
- excellent rejection

Applications

- defense communications
- receivers/transmitters
- harmonic rejection of VCOs

SALF-78+
SALF-78



CASE STYLE: YY101
PRICE: \$6.95 ea. QTY (1-9)

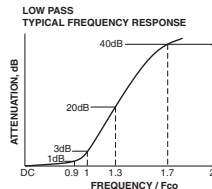
**+ RoHS compliant in accordance
with EU Directive (2002/95/EC)**

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

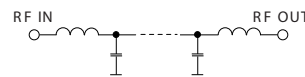
Low Pass Filter Electrical Specifications

PASSBAND (MHz)	fco, (MHz) Nom.	STOPBAND (MHz)		VSWR (:1)	
(loss < 1 dB)	(loss 3 dB) Typ.	(loss > 20 dB) Min.	(loss > 40 dB) Min.	Pass band typ.	Stop band typ.
DC-78	93	120-136	136-550	1.3	18

typical frequency response



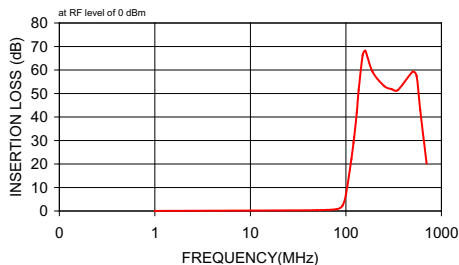
Electrical Schematic



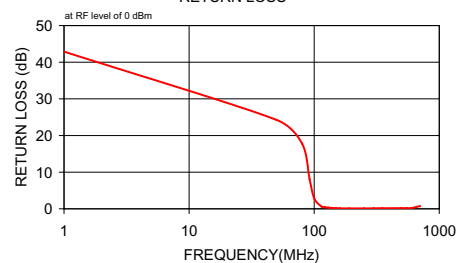
Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Return Loss (dB)
	$\bar{x}$	σ	
1.00	0.04	0.01	42.90
50.00	0.33	0.01	24.26
80.00	0.77	0.03	17.79
92.00	2.28	0.12	8.01
100.00	6.90	0.30	2.87
114.00	21.99	0.42	0.67
120.00	29.06	0.48	0.47
122.00	31.44	0.51	0.42
130.00	41.87	0.78	0.31
136.00	51.54	1.40	0.25
150.00	66.41	3.36	0.18
160.00	68.12	2.07	0.14
190.00	59.27	0.50	0.12
250.00	53.27	0.32	0.12
300.00	51.89	0.33	0.14
350.00	51.47	0.35	0.15
500.00	59.23	1.06	0.18
550.00	57.42	1.70	0.19
600.00	42.90	0.84	0.20
700.00	20.29	1.10	0.74

SALF-78
INSERTION LOSS



SALF-78
RETURN LOSS



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