

Surface Mount Low Pass Filter

50Ω DC to 116 MHz

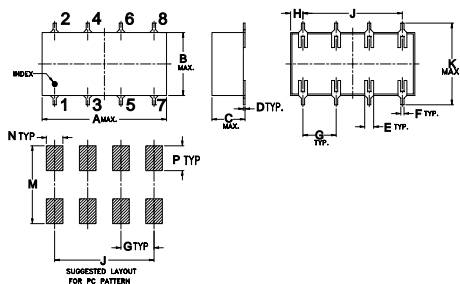
Maximum Ratings

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

Pin Connections

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

Outline Drawing

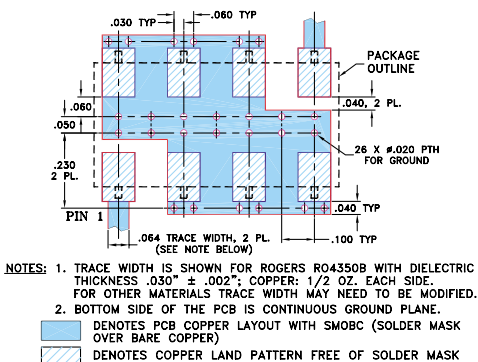


Outline Dimensions (inch)

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-116+
SALF-116



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

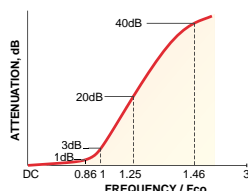
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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

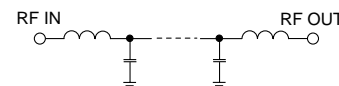
Low Pass Filter Electrical Specifications

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-116	142	182-220	220-825	1.3	18

typical frequency response



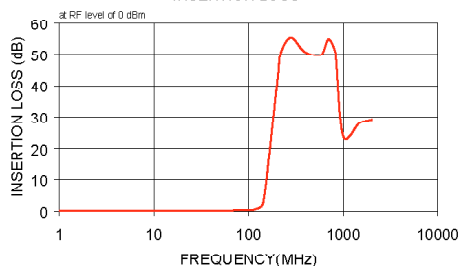
electrical schematic



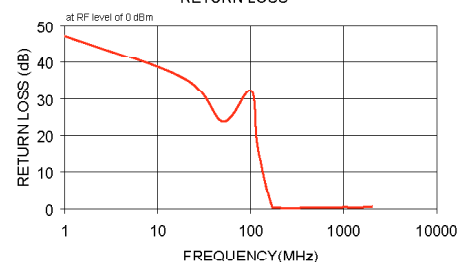
Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Return Loss (dB)
	\bar{x}	σ	
1.00	0.03	0.00	47.20
20.00	0.10	0.00	35.44
50.00	0.19	0.00	24.04
100.00	0.37	0.00	32.44
116.00	0.54	0.01	18.55
142.00	2.41	0.24	7.34
170.00	21.20	0.50	0.42
182.00	29.28	0.50	0.27
205.00	43.25	0.60	0.20
220.00	50.74	0.62	0.19
280.00	55.38	0.32	0.18
380.00	51.16	0.40	0.21
500.00	49.70	0.49	0.21
600.00	50.21	0.59	0.23
700.00	54.82	1.02	0.23
825.00	50.82	1.12	0.22
850.00	46.29	0.96	0.25
1000.00	23.73	2.39	0.39
1500.00	28.01	1.01	0.34
2000.00	29.12	1.29	0.55

SALF-116 INSERTION LOSS



SALF-116 RETURN LOSS



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