

Surface Mount Low Pass Filter

50Ω DC to 700 MHz

Maximum Ratings

Operating Temperature -40°C to 85°C

Storage Temperature -55°C to 100°C

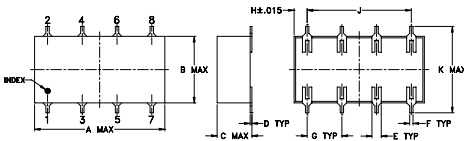
Power Input 0.5W max.

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

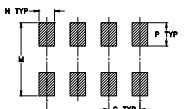
Pin Connections

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

Outline Drawing



PCB Land Pattern

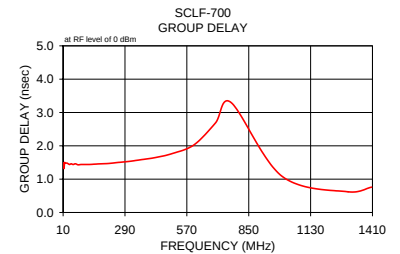
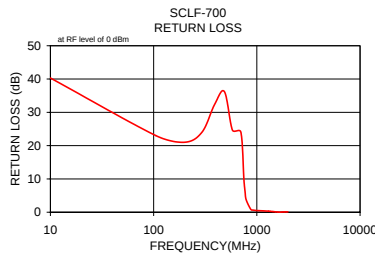
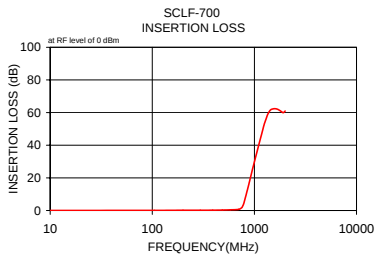
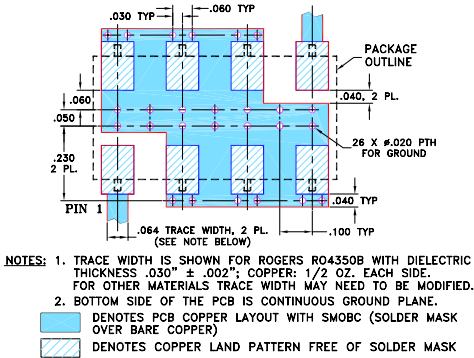


Suggested Layout,
Tolerance to be within ±.002

Outline Dimensions (inch)

A	B	C	D	E	F	G
0.75	0.38	0.28	0.01	0.05	0.02	0.2
19.05	9.65	7.11	0.25	1.27	0.51	5.08
H	J	K	M	N	P	wt
0.075	0.6	0.45	0.47	0.1	0.15	grams
1.91	15.24	11.43	11.94	2.54	3.81	1.60

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



Features

- wide selection of cut-off frequencies
- excellent rejection
- custom models available

Applications

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



CASE STYLE: YY161

PRICE: \$12.95 ea. QTY (1-9)

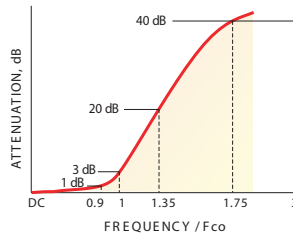
+ RoHS compliant in accordance
with EU Directive (2002/95/EC)

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

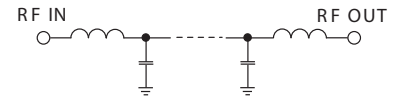
Low Pass Filter Electrical Specifications

PASSBAND (MHz)	fco, (MHz) Nom.	STOPBAND (MHz)	VSWR (:1)
(loss < 1 dB)	(loss 3 dB)	(loss > 20 dB) (loss > 40 dB)	Pass band Typ. Stop band Typ.
DC-700	770	1000-1300 1300-2000	1.7 18

typical frequency response



Electrical Schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
	$\bar{x}$	σ		
10.00	0.03	0.00	10.00	1.49
105.00	0.10	0.01	11.85	1.48
200.00	0.15	0.01	14.13	1.32
295.00	0.18	0.02	16.66	1.50
390.00	0.21	0.01	19.87	1.48
485.00	0.28	0.01	23.41	1.48
580.00	0.41	0.02	27.95	1.48
700.00	0.71	0.08	32.97	1.46
750.00	1.69	0.48	39.32	1.44
770.00	2.84	0.73	46.38	1.46
790.00	4.60	0.94	55.31	1.44
874.00	15.12	1.04	65.24	1.46
916.00	20.37	0.95	77.80	1.43
958.00	25.26	0.87	91.76	1.44
1000.00	29.87	0.81	109.43	1.44
1042.00	34.21	0.77	129.07	1.44
1093.60	39.27	0.71	153.93	1.45
1145.20	44.02	0.69	181.56	1.46
1196.80	48.51	0.67	216.52	1.47
1248.40	52.85	0.79	255.38	1.50
1300.00	56.02	0.93	304.56	1.53
1350.00	58.93	1.15	359.23	1.58
1431.30	61.47	1.39	428.40	1.65
1512.50	62.21	1.27	505.29	1.77
1593.80	62.37	1.17	602.59	2.03
1675.00	62.10	1.10	700.00	2.69
1756.30	61.44	0.94	770.00	3.30
1837.50	60.59	0.85	1000.00	1.09
1918.80	59.96	0.75	1300.00	0.62
2000.00	60.93	0.73	1406.29	0.76

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