

Surface Mount Low Pass Filter

SALF-265+ SALF-265

50Ω DC to 265 MHz

Maximum Ratings

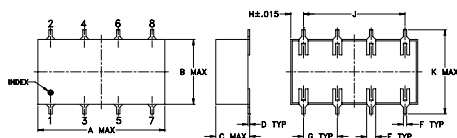
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input	0.5W max.

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

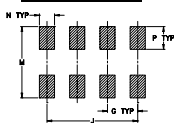
Pin Connections

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

Outline Drawing



PCB Land Pattern

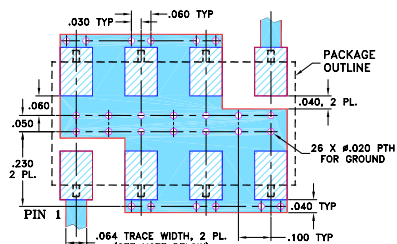


Suggested Layout,
Tolerance to be within ±.002

Outline Dimensions (inch/mm)

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)



- NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .030" ± .002"; COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
- DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
 - DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Features

- 7-section elliptic function
- excellent rejection

Applications

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



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

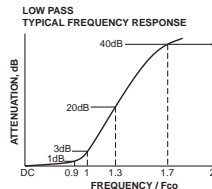
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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

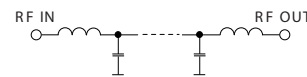
Low Pass Filter Electrical Specifications

PASSBAND (MHz)	fco, (MHz) Nom.	STOPBAND (MHz)		VSWR (:1)	
		(loss > 20 dB)	(loss > 40 dB)	Pass band typ.	Stop band typ.
(loss < 1 dB)	(loss 3 dB) Typ.	Min.	Min.		
DC-265	308	390-470	470-1100	1.2	18

typical frequency response



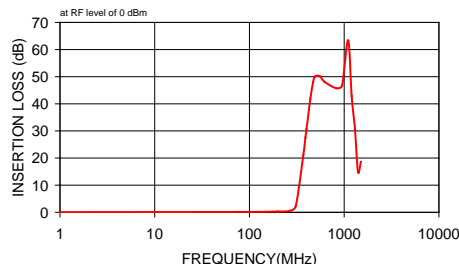
Electrical Schematic



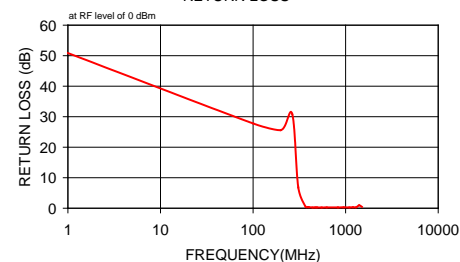
Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Return Loss (dB)
	\bar{x}	σ	
1.00	0.02	0.00	50.86
100.00	0.16	0.00	27.79
200.00	0.32	0.00	25.62
265.00	0.51	0.01	30.86
308.00	2.28	0.25	6.85
370.00	21.06	0.66	0.46
390.00	27.62	0.68	0.37
400.00	30.69	0.70	0.34
440.00	41.90	0.75	0.25
470.00	47.98	0.73	0.28
490.00	50.01	0.65	0.26
550.00	50.21	0.51	0.25
625.00	48.01	0.44	0.26
825.00	45.76	0.49	0.27
950.00	46.72	0.66	0.29
1100.00	63.32	4.06	0.26
1200.00	42.86	0.87	0.31
1300.00	30.69	0.64	0.32
1400.00	14.94	1.46	0.93
1500.00	18.59	0.66	0.46

SALF-265 INSERTION LOSS



SALF-265 RETURN LOSS



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