

Surface Mount Low Pass Filter

SALF-265+
SALF-265

50Ω DC to 265 MHz

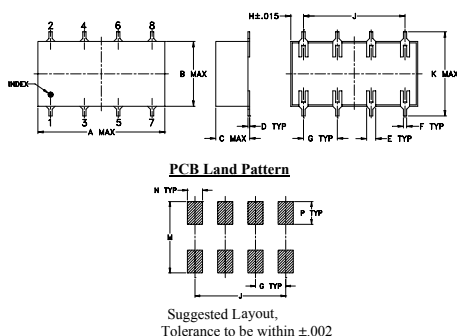
Maximum Ratings

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

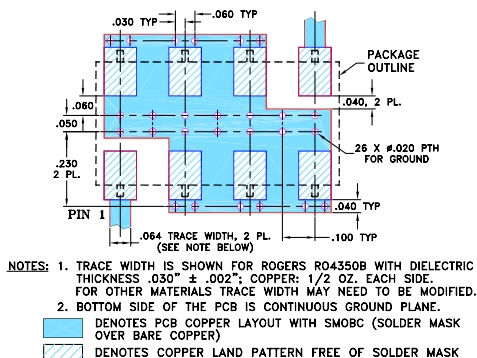
Outline Drawing



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)



Features

- 7-section elliptic function
- excellent rejection

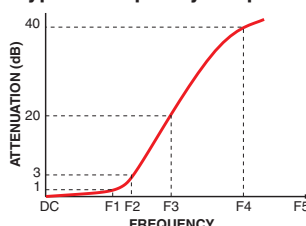
Applications

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

Electrical Specifications

Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	DC-F1	DC-265	—	—	1.0 dB
	Freq. Cut-Off	F2	308	—	3.0	dB
	VSWR	DC-F1	DC-265	—	1.2	:1
Stop Band	Rejection Loss	F3-F4	390-470	40	—	dB
		F4-F5	470-1100	20	—	dB
	VSWR	F3-F5	390-1100	—	18	:1

Typical Frequency Response



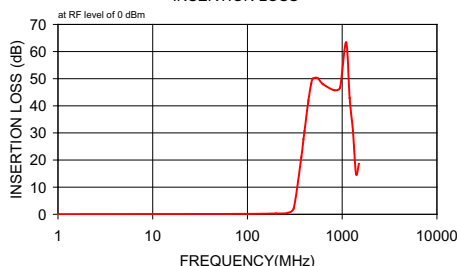
Electrical Schematic



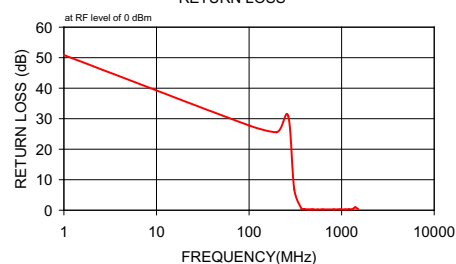
Typical Performance Data

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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IF/RF MICROWAVE COMPONENTS

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