

Low Pass Filter

RLP-340+

50Ω DC to 340 MHz

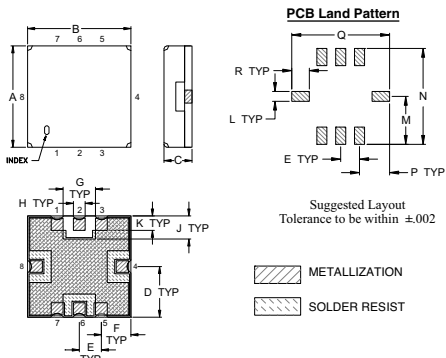
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W Max

Pin Connections

RF IN	2
RF OUT	6
GROUND	1, 3, 4, 5, 7, 8

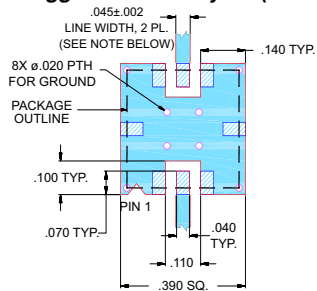
Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J
.350	.350	.100	.175	.075	.100	.110	.040	.080
8.89	8.89	2.54	4.45	1.93	2.54	2.79	1.02	2.03
K	L	M	N	P	Q	R	wt.	
.050	.040	.195	.390	.120	.390	.070	grams	
1.27	1.02	4.95	9.91	3.05	9.91	1.78	0.25	

Demo Board MCL P/N: TB-332 Suggested PCB Layout (PL-176)



- NOTES: 1. TRACE WIDTH IS SHOWN FOR FR4 WITH DIELECTRIC THICKNESS .025" ± .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

- High rejection
- Sharp Insertion Loss roll off
- Excellent VSWR, 1.15:1 typ. @ Passband
- Aqueous washable

Applications

- Wireless communications
- Receivers / Transmitters



CASE STYLE: GP731
PRICE: \$7.95 ea. QTY (10-49)

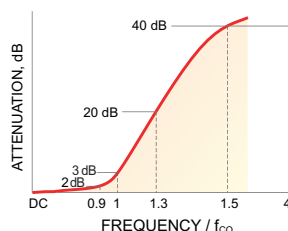
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

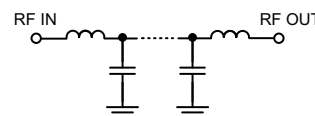
Low Pass Filter Electrical Specifications (T_{AMB} = 25°C)

PASSBAND (MHz)	f _{co} , MHz Nom.	STOPBAND (MHz)		VSWR (:1)	
		(Loss > 20dB)	(Loss > 40dB)	Passband Typ.	Stopband Typ.
DC - 340	365	475 - 560	560 - 1500	1.15	20

Typical Frequency Response

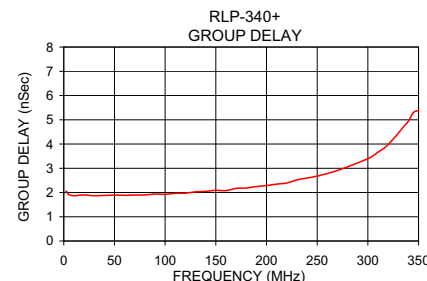
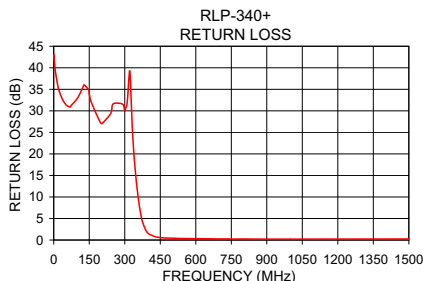
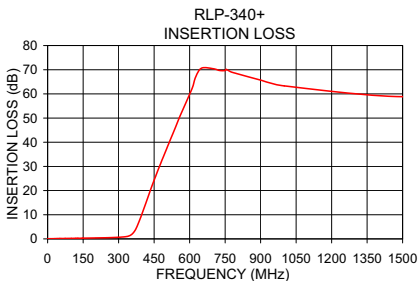


Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)		Return Loss (dB)	Frequency (MHz)	Group Delay (nSec)
	\bar{x}	σ			
0.5	0.02	0.01	41.88	3.0	2.03
50.0	0.15	0.00	31.53	5.0	1.91
150.0	0.30	0.01	33.97	10.0	1.87
300.0	0.68	0.01	30.15	30.0	1.87
320.0	0.81	0.01	39.21	50.0	1.90
340.0	1.10	0.05	19.06	70.0	1.90
356.0	1.90	0.16	10.20	110.0	1.96
365.0	2.89	0.24	6.87	130.0	2.03
376.0	4.77	0.34	4.09	150.0	2.09
396.0	9.66	0.42	1.69	170.0	2.17
432.0	19.55	0.38	0.69	190.0	2.24
460.0	26.81	0.36	0.51	210.0	2.35
475.0	30.57	0.37	0.47	250.0	2.68
518.0	40.89	0.39	0.39	270.0	2.91
560.0	50.95	0.81	0.35	300.0	3.40
700.0	70.40	4.16	0.26	310.0	3.67
1000.0	63.32	2.29	0.21	340.0	4.94
1500.0	58.88	2.43	0.24	350.0	5.38



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



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RF/IF MICROWAVE COMPONENTS

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