

Low Pass Filter

50Ω DC to 40 MHz

RLP-40+

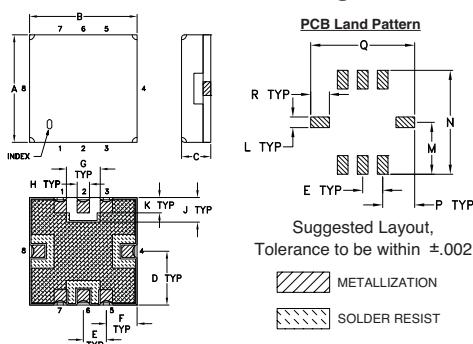
Maximum Ratings

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

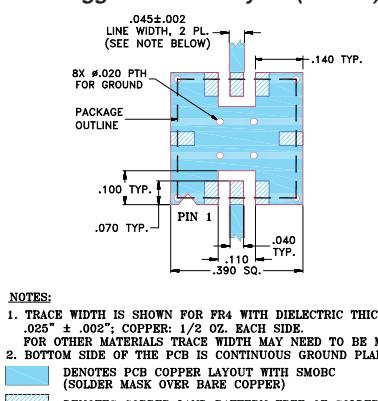
Permanent damage may occur if any of these limits are exceeded.

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	25
1.27	1.02	4.95	9.91	3.05	9.91	1.78		

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

- high rejection
- sharp insertion loss roll off
- excellent VSWR, 1.1:1 typ. @ passband
- aqueous washable



CASE STYLE: GP731

PRICE: \$7.95 ea. QTY (10)

+RoHS Compliant

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

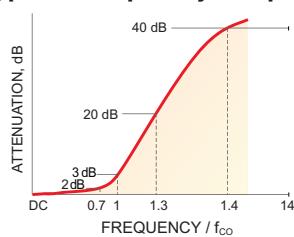
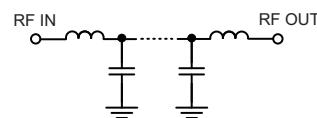
Available Tape and Reel at no extra cost	
Reel Size	Devices/Reel
7"	10, 20, 50, 100, 200
13"	500, 1000

Applications

- wireless broadband access
- receivers / transmitters

Low Pass Filter Electrical Specifications ($T_{AMB} = 25^\circ C$)

PASSBAND (MHz)	f _{co} , MHz Nom. (Loss < 2dB)	STOPBAND (MHz)		VSWR (:1)	
		(Loss > 20dB)	(Loss > 40dB)	Passband Typ.	Stopband Typ.
DC - 40	56	70 - 80	80 - 800	1.1	20

Typical Frequency Response**Functional Schematic****Typical Performance Data at 25°C**

Frequency (MHz)	Insertion Loss (dB) \bar{x}	Return Loss (dB) σ	Frequency (MHz)	Group Delay (nSec)
0.5	0.50	0.00	25.19	10.93
10.0	0.52	0.00	23.23	11.54
26.0	0.67	0.01	32.63	4.0
40.0	1.01	0.01	36.25	8.0
56.0	2.80	0.15	13.58	12.00
60.0	6.79	0.54	4.42	12.17
62.0	10.60	0.70	2.66	12.56
66.0	19.71	0.82	1.43	12.65
70.0	29.39	0.96	1.05	12.90
80.0	58.83	0.65	0.71	13.47
100.0	61.12	1.81	0.46	13.75
200.0	64.67	1.40	0.17	15.19
300.0	85.19	3.99	0.10	16.03
400.0	85.20	6.09	0.08	16.49
500.0	91.89	3.18	0.08	17.86
600.0	85.33	6.16	0.07	19.00
700.0	62.07	0.55	0.08	21.55
800.0	58.10	0.51	0.10	25.56

NOTES:

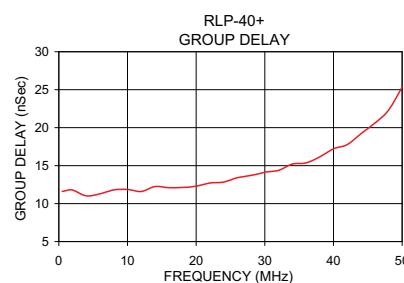
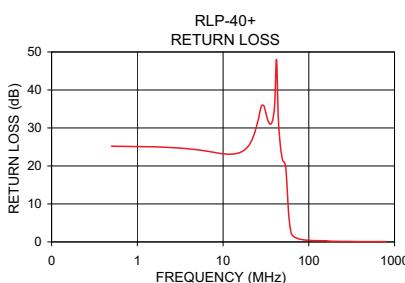
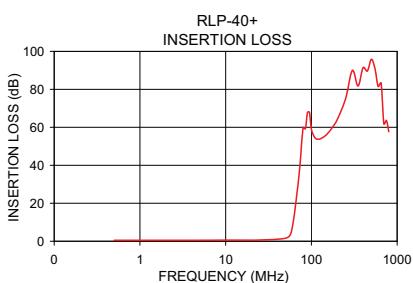
1. TRACE WIDTH IS SHOWN FOR FR4 WITH DIELECTRIC THICKNESS .025" ± .002"; COPPER: 1/2 OZ. EACH SIDE.

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

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine  Provides ACTUAL Data Instantly at minicircuits.com

IF/RF MICROWAVE COMPONENTS

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