



Low Pass Filter

Features

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

Applications

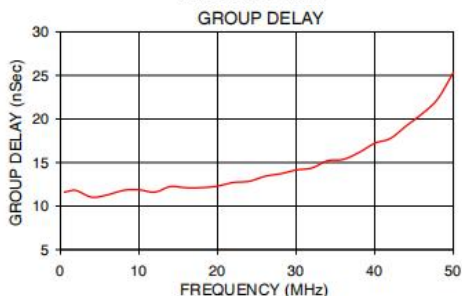
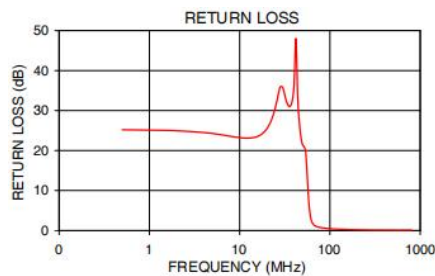
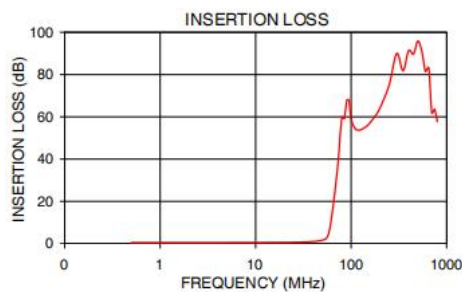
- wireless broadband access
- receivers / transmitters

Low Pass Filter Electrical Specifications

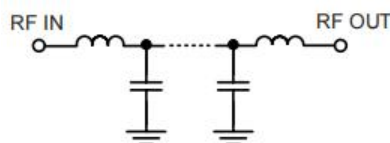
PASSBAND (MHz) (loss < 2 dB)	fco (MHz) Nom. (loss 3 dB)	STOPBAND (MHz)		VSWR (:1)	
		(loss > 20 dB)	(loss > 40 dB)	Passband Typ.	Stopband Typ.
DC-40	56	70-80	80-800	1.1	20

Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
	$\bar{x}$	σ			
0.5	0.50	0.00	25.19	0.5	10.93
10.0	0.52	0.00	23.23	2.0	11.54
26.0	0.67	0.01	32.63	4.0	11.64
40.0	1.01	0.01	36.25	8.0	11.41
56.0	2.80	0.15	13.58	12.0	12.00
60.0	6.79	0.54	4.42	16.0	12.17
62.0	10.60	0.70	2.66	20.0	12.56
66.0	19.71	0.82	1.43	22.0	12.65
70.0	29.39	0.96	1.05	24.0	12.90
80.0	58.83	0.65	0.71	28.0	13.47
100.0	61.12	1.81	0.46	30.0	13.75
200.0	64.67	1.40	0.17	34.0	15.19
300.0	85.19	3.99	0.10	38.0	16.03
400.0	85.20	6.09	0.08	40.0	16.49
500.0	91.89	3.18	0.08	42.0	17.86
600.0	85.33	6.16	0.07	44.0	19.00
700.0	62.07	0.55	0.08	48.0	21.55
800.0	58.10	0.51	0.10	50.0	25.56



Functional Schematic



JY-RLP-40+



50Ω DC to 40 MHz

Maximum Ratings

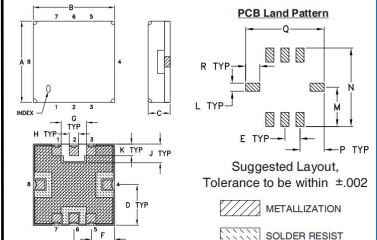
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input*	0.5W max.

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

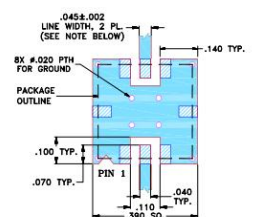
Outline Drawing



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	1.91	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

Suggested PCB Layout



NOTES:
1. TRACE WIDTH IS SHOWN FOR FR4 WITH DIELECTRIC THICKNESS .005" ± .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