

Low Pass Filter

50Ω DC to 190 MHz

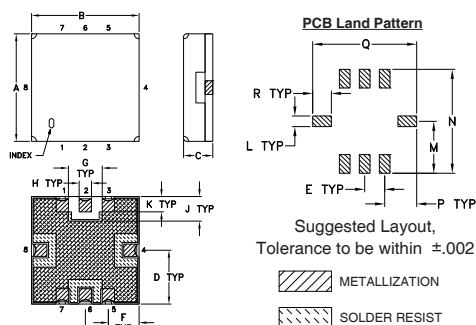
Maximum Ratings

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

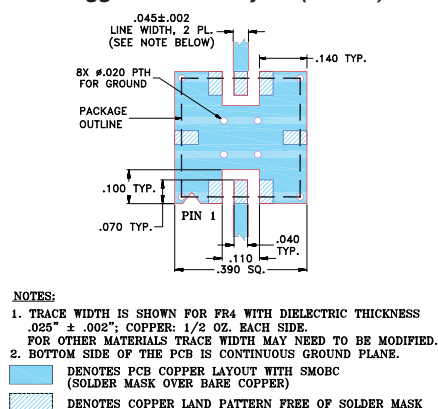


Outline Dimensions (inch/mm)

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	1.93	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

Note: Please refer to case style drawing for details

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

Applications

- wireless communications
- receivers / transmitters
- TV distribution / digital TV



Generic photo used for illustration purposes only
CASE STYLE: GP731

+RoHS Compliant

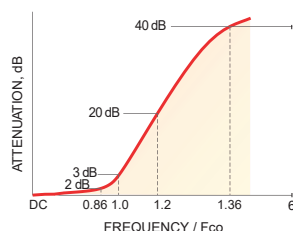
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Reel Size	Devices/Reel
7"	10, 20, 50, 100, 200
13"	500, 1000

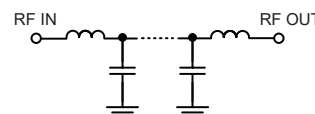
Low Pass Filter Electrical Specifications (T_{AMB} = 25°C)

PASSBAND (MHz)	f _{co} , MHz Nom.	STOPBAND (MHz)	VSWR (:1)
(Loss < 2dB)	(Loss 3dB)	(Loss > 20dB) (Loss > 40dB)	Passband Typ. Stopband Typ.
DC - 190	220	264 - 300 300 - 1300	1.1 20

Typical Frequency Response

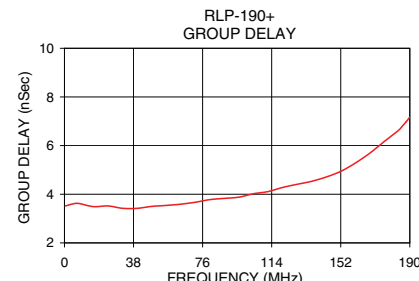
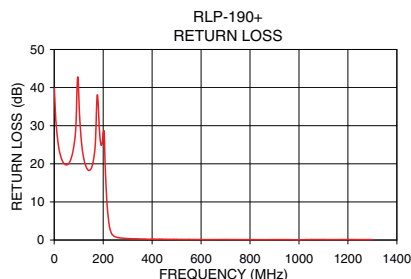


Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nSec)
$\bar{x}$	σ			
0.5	0.09	0.00	0.5	3.52
5.0	0.10	0.00	5.0	3.61
40.0	0.26	0.01	16.0	3.49
120.0	0.47	0.01	32.0	3.42
160.0	0.65	0.01	56.0	3.54
190.0	0.95	0.02	72.0	3.67
208.0	1.46	0.04	88.0	3.83
216.0	2.49	0.12	112.0	4.11
220.0	3.62	0.19	128.0	4.41
224.0	5.25	0.27	136.0	4.53
228.0	7.30	0.34	144.0	4.71
240.0	14.50	0.43	160.0	5.28
252.0	21.68	0.45	168.0	5.69
264.0	28.50	0.44	176.0	6.17
300.0	49.86	0.65	184.0	6.64
500.0	85.78	8.95	186.0	6.81
1000.0	84.88	4.71	188.0	6.98
1300.0	79.26	5.38	190.0	7.17



Notes

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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