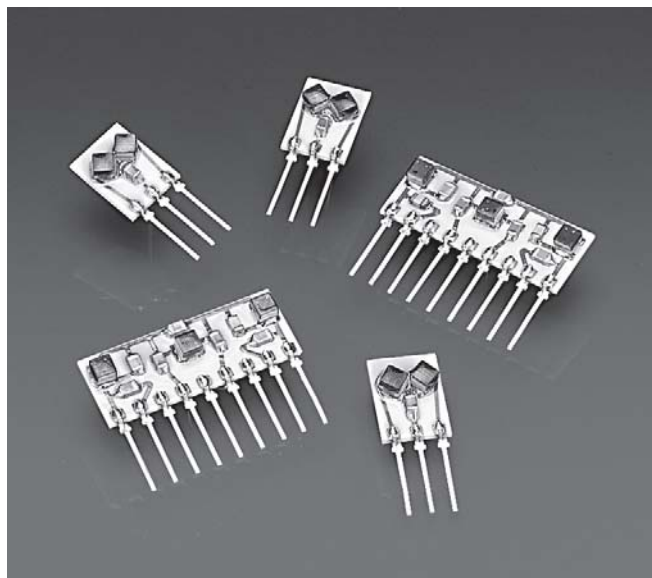




Low Pass LC Filter Modules



Coilcraft's family of low pass LC filters are available in 3rd order Butterworth and 7th order elliptical alignments. These space saving SIP filters offer all the benefits of an LC design: low insertion loss, high power handling and controlled group delay.

Built using Coilcraft's tight tolerance surface mount inductors, these filters can be readily customized to meet your specific requirements.

- 3rd and 7th order alignments
- 50 Ohm characteristic impedance (75 Ohm versions also available)
- Less than 0.3 dB insertion loss

Coilcraft **Designer's Kit D301** contains samples of the filters shown in bold. To order, contact Coilcraft or visit <http://order.coilcraft.com>.

S-Parameter files
ON OUR WEB SITE OR CD

7 Pole Filters

| Part number | -3 dB cutoff ¹ (MHz) | I _{rms} ² (mA) |
|------------------|---------------------------------|------------------------------------|
| P7LP-304L | 0.30 | 100 |
| P7LP-604L | 0.60 | 200 |
| P7LP-155L | 1.5 | 200 |
| P7LP-305L | 3.0 | 250 |
| P7LP-605L | 6.0 | 250 |
| P7LP-156L | 15 | 300 |
| P7LP-306L | 30 | 400 |
| P7LP-606L | 60 | 500 |
| P7LP-157L | 150 | 600 |
| P7LP-307L | 300 | 600 |
| P7LP-507L | 500 | 600 |

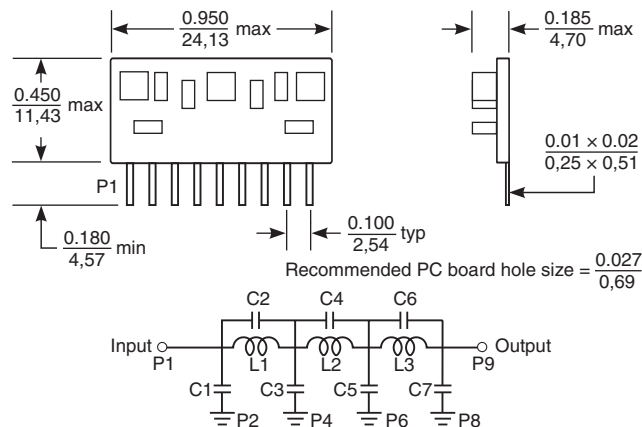
3 Pole Filters

| Part number | -3 dB cutoff ¹ (MHz) | I _{rms} ² (mA) |
|------------------|---------------------------------|------------------------------------|
| P3LP-304L | 0.30 | 100 |
| P3LP-604L | 0.60 | 200 |
| P3LP-155L | 1.5 | 200 |
| P3LP-305L | 3.0 | 200 |
| P3LP-605L | 6.0 | 300 |
| P3LP-156L | 15 | 400 |
| P3LP-306L | 30 | 500 |
| P3LP-606L | 60 | 500 |
| P3LP-157L | 150 | 900 |
| P3LP-307L | 300 | 900 |
| P3LP-507L | 500 | 500 |

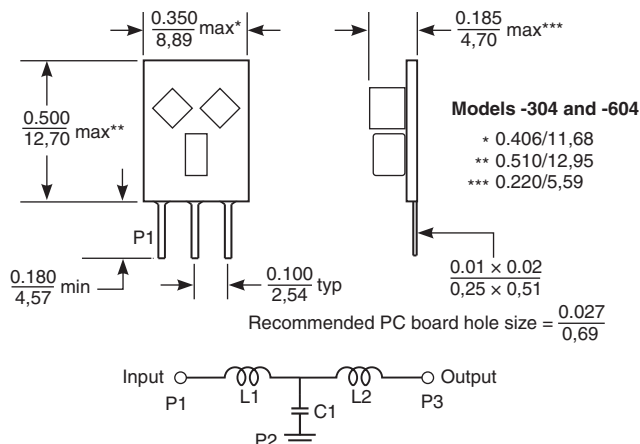
1. Tested on Network Analyzers Agilent/HP 8753D Agilent/HP 3577B.
2. Current that causes a 15°C temperature rise from 25°C ambient.
3. **Ambient temperature range:** -40°C to +85°C
4. **Storage temperature range:** Component: -40°C to +85°C
Packaging: -40°C to +80°C
5. Electrical specifications at 25°C.
6. Parts in bold type are included in a Coilcraft Designer's Kit.

Weight: P3LP: 0.33 – 0.68g; P7LP: 0.86 g
Terminations: Matte-tin over nickel over phos bronze
Packaging: 30 per tray

7 Pole Filters



3 Pole Filters



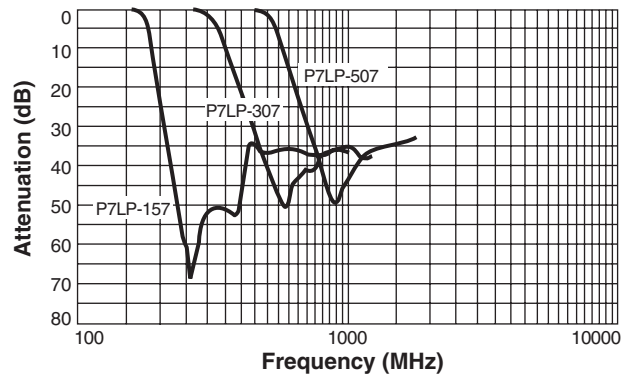
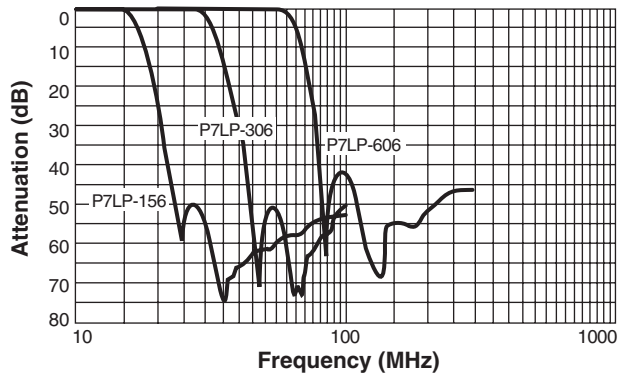
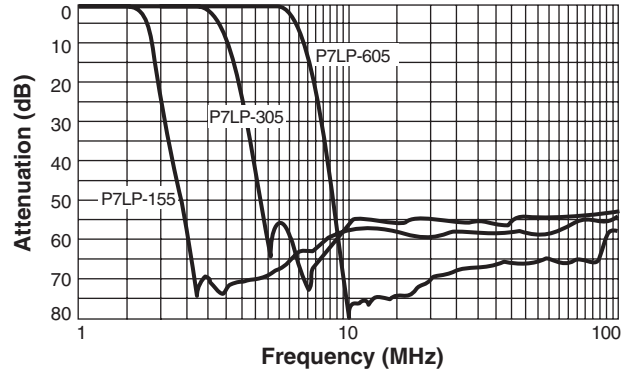
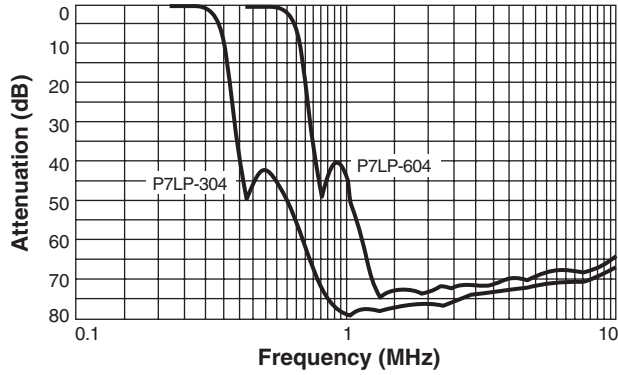
Specifications subject to change without notice.
Please check our website for latest information.

Document 118-1 Revised 10/30/08

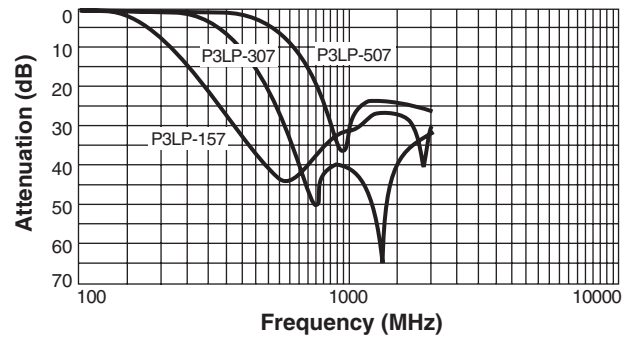
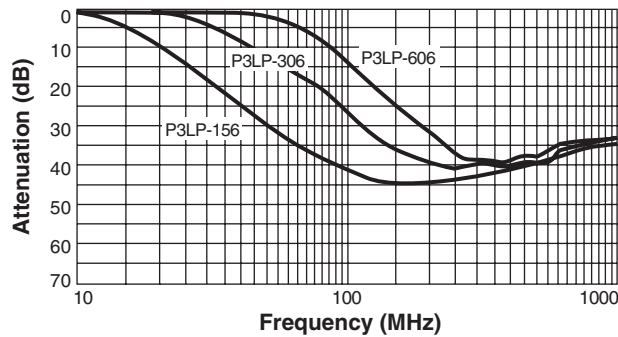
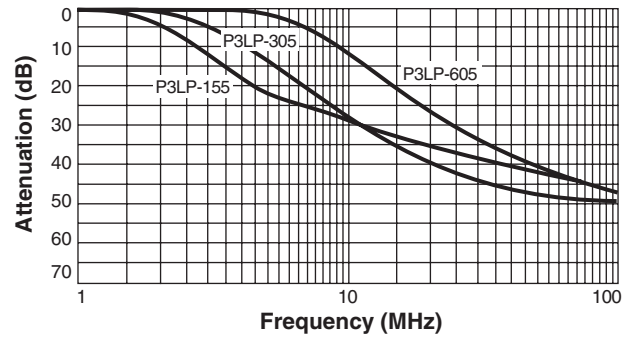
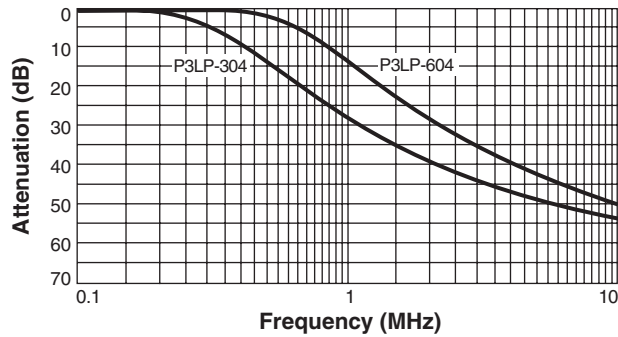
1102 Silver Lake Road Cary, Illinois 60013 Phone 847/639-6400 Fax 847/639-1469
E-mail info@coilcraft.com Web <http://www.coilcraft.com>



7 Pole Filters*



3 Pole Filters*



*Measured on Agilent/HP 8753D network analyzer (re: 50Ω)



Specifications subject to change without notice.
Please check our website for latest information.

Document 118-2 Revised 10/30/08

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