

# 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 D101** contains samples of the filters shown in bold. To order, contact Coilcraft or visit <http://order.coilcraft.com>.

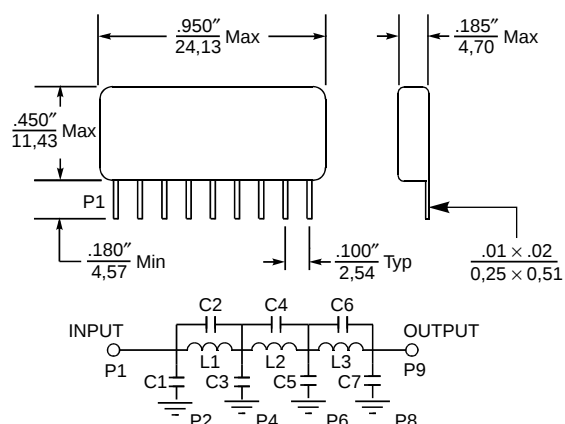
**S-Parameter files**

ON OUR WEB SITE OR CD

**PSpice models**

SEE CATALOG, WEB SITE OR CD

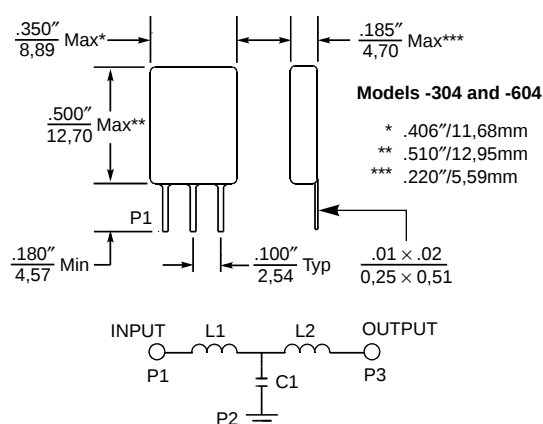
## 7 POLE FILTERS



| Part Number     | -3 dB cutoff (MHz) <sup>1</sup> | I <sub>DC</sub> (mA) <sup>2</sup> |
|-----------------|---------------------------------|-----------------------------------|
| <b>P7LP-304</b> | <b>0.30</b>                     | <b>100</b>                        |
| P7LP-604        | 0.60                            | 200                               |
| <b>P7LP-155</b> | <b>1.5</b>                      | <b>200</b>                        |
| P7LP-305        | 3.0                             | 250                               |
| <b>P7LP-605</b> | <b>6.0</b>                      | <b>250</b>                        |
| P7LP-156        | 15                              | 300                               |
| <b>P7LP-306</b> | <b>30</b>                       | <b>400</b>                        |
| P7LP-606        | 60                              | 500                               |
| <b>P7LP-157</b> | <b>150</b>                      | <b>600</b>                        |
| P7LP-307        | 300                             | 600                               |
| <b>P7LP-507</b> | <b>500</b>                      | <b>600</b>                        |

1. Tested on Agilent/HP8753D/HP3577B.
2. For a 15° C rise.
3. Operating temperature range -40° C to +85° C.
4. Electrical specifications at 25° C.
5. Parts in bold type are included in Coilcraft Designer's Kit D101.

## 3 POLE FILTERS



| Part Number     | -3 dB cutoff (MHz) <sup>1</sup> | I <sub>DC</sub> (mA) <sup>2</sup> |
|-----------------|---------------------------------|-----------------------------------|
| <b>P3LP-304</b> | <b>0.30</b>                     | <b>100</b>                        |
| P3LP-604        | 0.60                            | 200                               |
| <b>P3LP-155</b> | <b>1.5</b>                      | <b>200</b>                        |
| P3LP-305        | 3.0                             | 200                               |
| <b>P3LP-605</b> | <b>6.0</b>                      | <b>300</b>                        |
| P3LP-156        | 15                              | 400                               |
| <b>P3LP-306</b> | <b>30</b>                       | <b>500</b>                        |
| P3LP-606        | 60                              | 500                               |
| <b>P3LP-157</b> | <b>150</b>                      | <b>900</b>                        |
| P3LP-307        | 300                             | 900                               |
| <b>P3LP-507</b> | <b>500</b>                      | <b>500</b>                        |

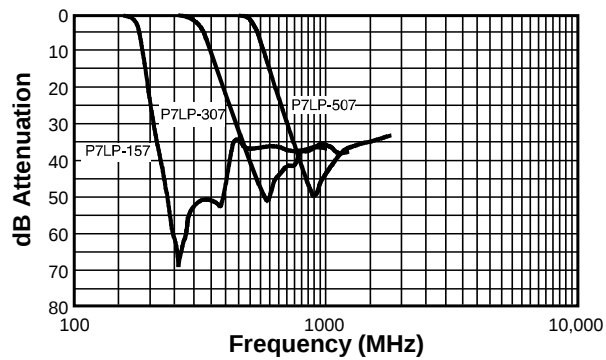
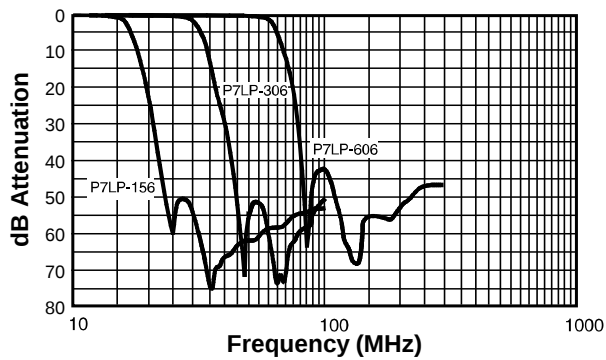
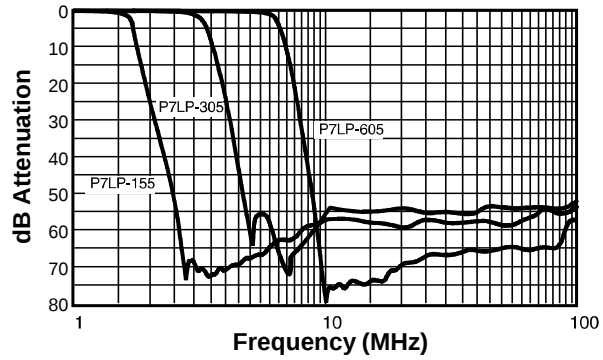
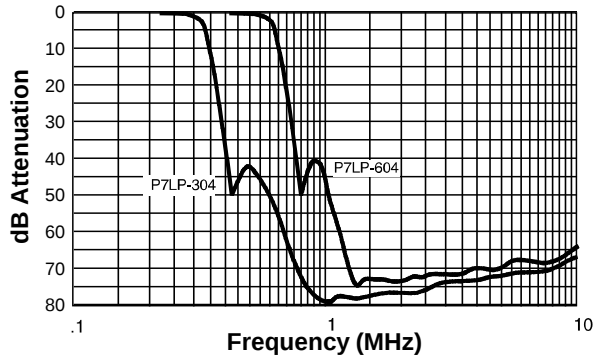
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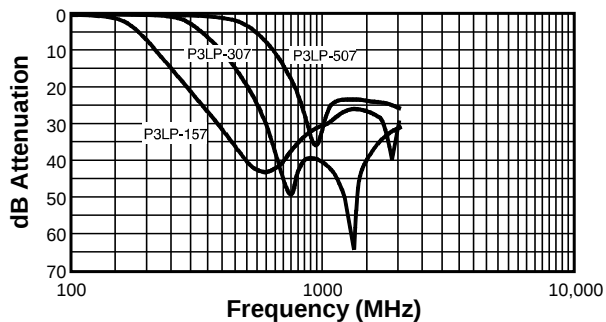
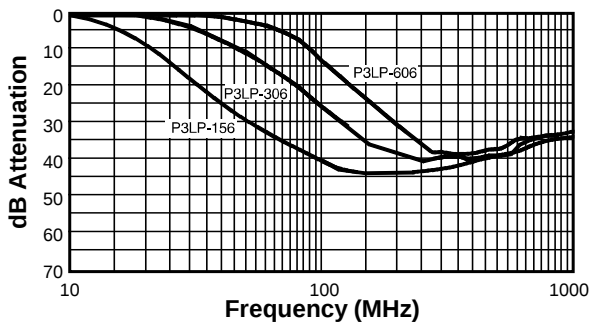
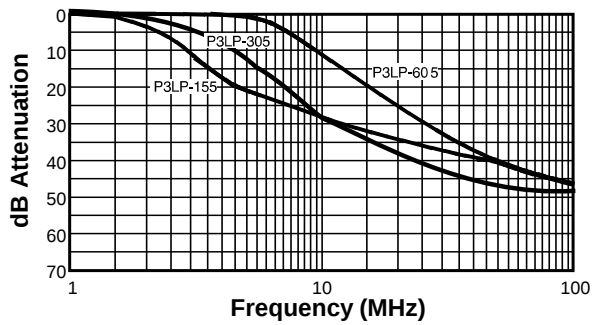
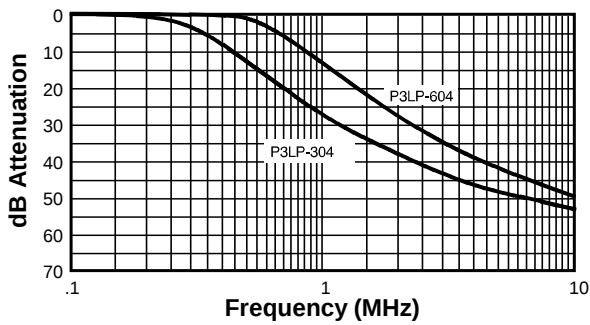
Specifications subject to change without notice. Document 118-1 Revised 4/9/01

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## 7 POLE FILTERS\*



## 3 POLE FILTERS\*



\*Measured on Agilent/HP8753D network analyzer (re: 50Ω)

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