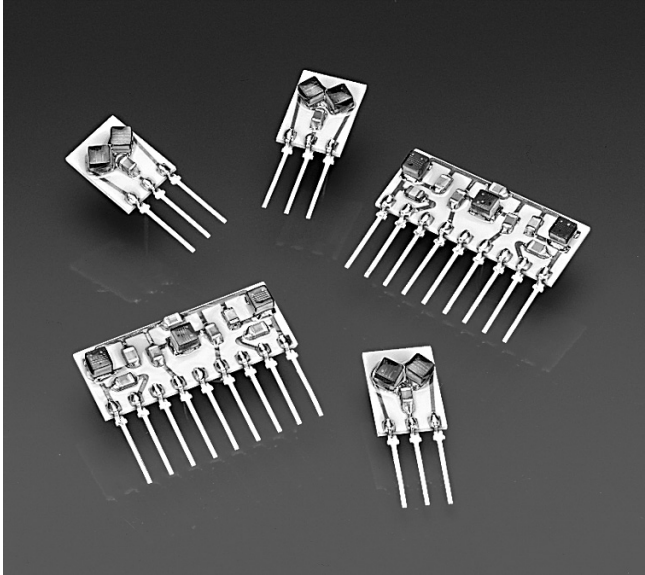


# Low Pass LC Filter Modules



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
- 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 WFR SITE

## 7 Pole Filters

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

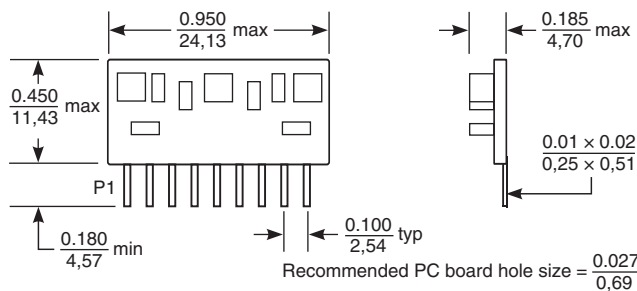
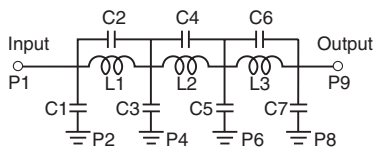
## 3 Pole Filters

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

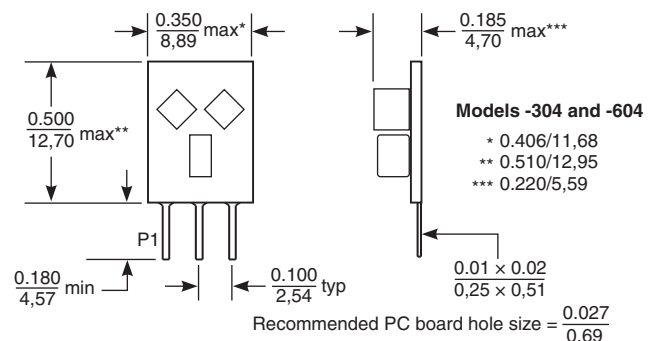
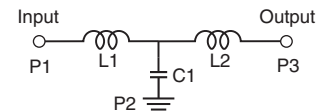
**Weight:** P3LP: 0.33 – 0.68g; P7LP: 0.86 g  
**Terminations:** Matte-tin over nickel over phos bronze  
**Packaging:** 30 per tray

## 7 Pole Filters



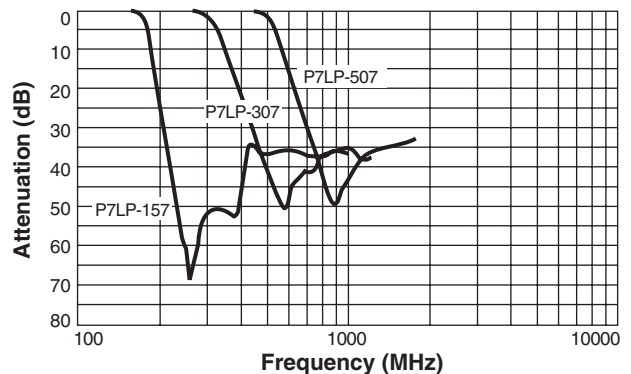
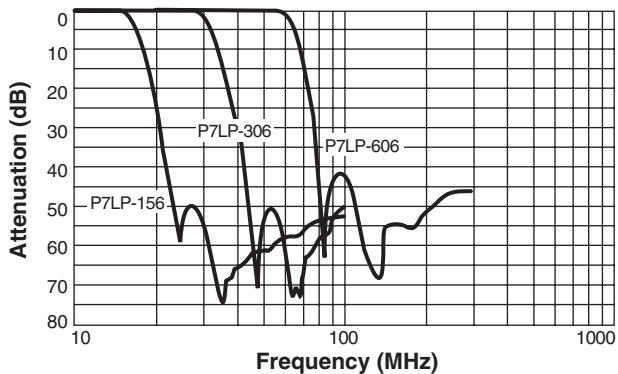
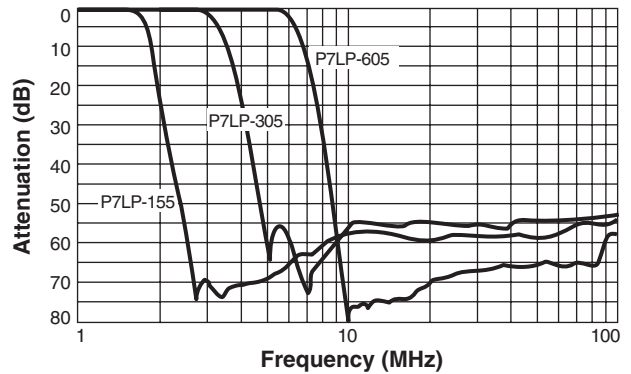
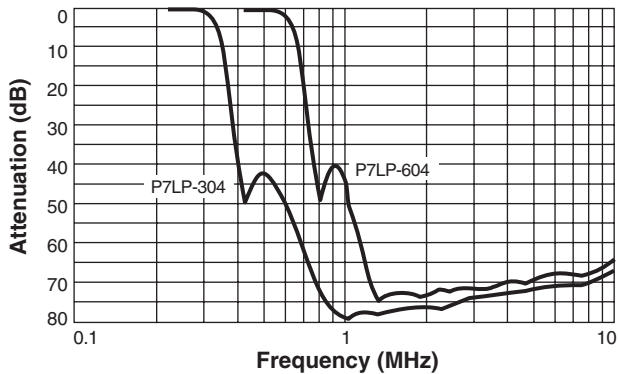
Pins P3, P5 and P7 are not connected to circuitry. They are provided for mounting purposes only.

## 3 Pole Filters

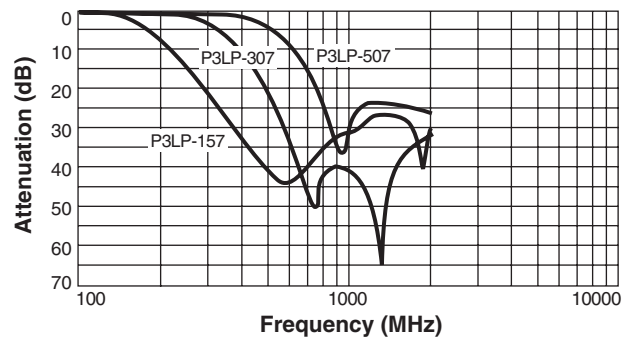
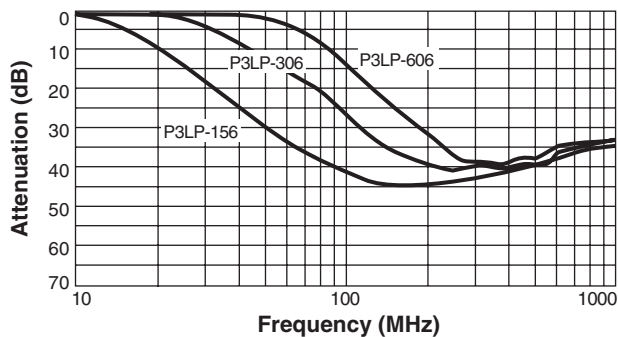
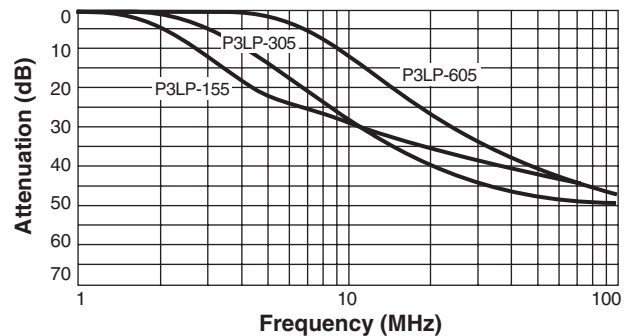
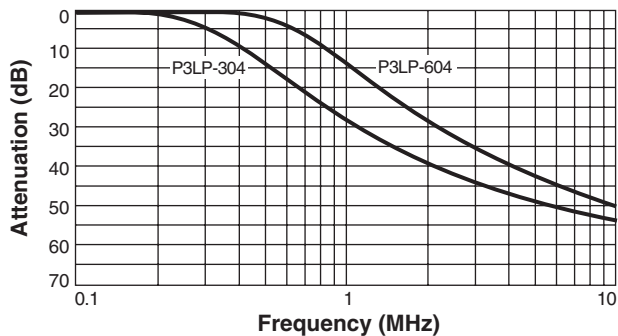




## 7 Pole Filters\*



## 3 Pole Filters\*



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



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