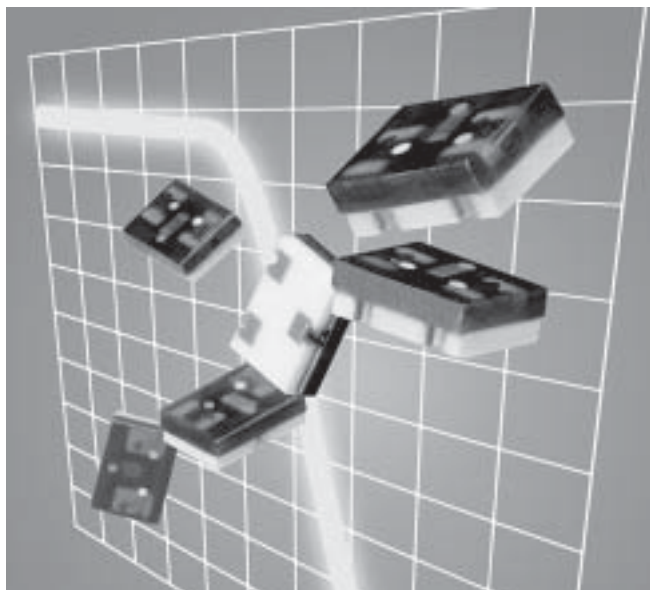


# Surface Mount LC Filters



These space saving low and high pass filters are pre-tuned, tight tolerance modules which serve a wide variety of filtering requirements.

They feature 3rd order Butterworth alignment, less than 0.3 dB insertion loss and a compact, 1812-size construction ideally suited for auto insertion and reflow soldering.

- 3rd order Butterworth alignment
- 50 Ohm characteristic impedance
- Less than 0.3 dB insertion loss

Coilcraft **Designer's Kit D102** contains samples of all low pass filters. 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

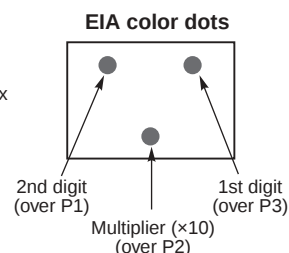
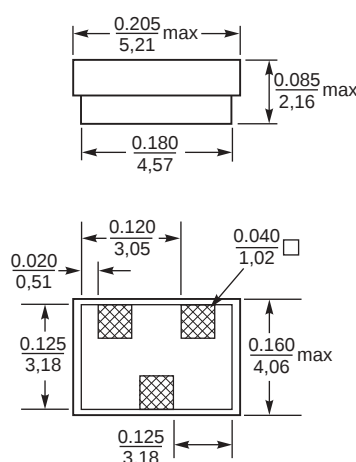
## Low Pass Filters

| Part number | -3 dB Cutoff | Irms (mA) <sup>1</sup> |
|-------------|--------------|------------------------|
| S3LP156     | 15 MHz       | 200                    |
| S3LP306     | 30 MHz       | 300                    |
| S3LP606     | 60 MHz       | 300                    |
| S3LP157     | 150 MHz      | 400                    |
| S3LP307     | 300 MHz      | 400                    |
| S3LP507     | 500 MHz      | 500                    |
| S3LP707     | 700 MHz      | 500                    |
| S3LP807     | 800 MHz      | 500                    |
| S3LP907     | 900 MHz      | 500                    |
| S3LP108     | 1.0 GHz      | 500                    |
| S3LP128     | 1.2 GHz      | 500                    |
| S3LP158     | 1.5 GHz      | 500                    |
| S3LP188     | 1.8 GHz      | 500                    |
| S3LP218     | 2.1 GHz      | 500                    |

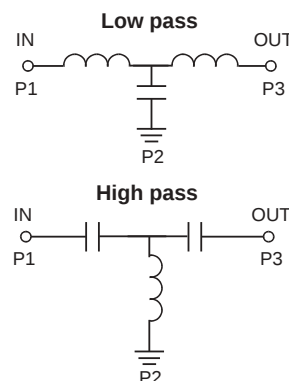
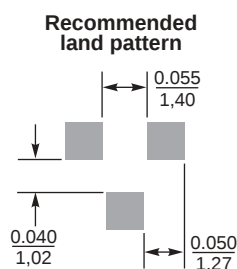
## High Pass Filters

| Part number | -3 dB Cutoff | Irms (mA) <sup>1</sup> |
|-------------|--------------|------------------------|
| S3HP156     | 15 MHz       | 300                    |
| S3HP306     | 30 MHz       | 300                    |
| S3HP606     | 60 MHz       | 300                    |
| S3HP157     | 150 MHz      | 300                    |
| S3HP307     | 300 MHz      | 300                    |
| S3HP507     | 500 MHz      | 500                    |
| S3HP807     | 800 MHz      | 500                    |

1. Average current for a 15°C rise above 25°C ambient.
2. Operating temperature range -40°C to +85°C.
3. Electrical specifications at 25°C.



### Alternate marking



Parts/reel: 7 600, 13 2,200 Tape width: 12 mm  
For packaging data see Tape and Reel Specifications section.

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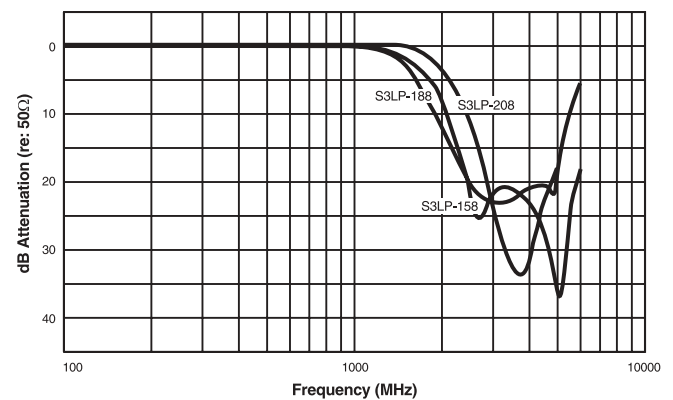
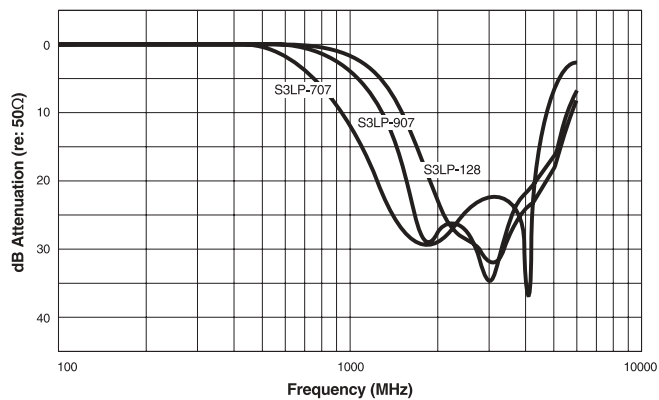
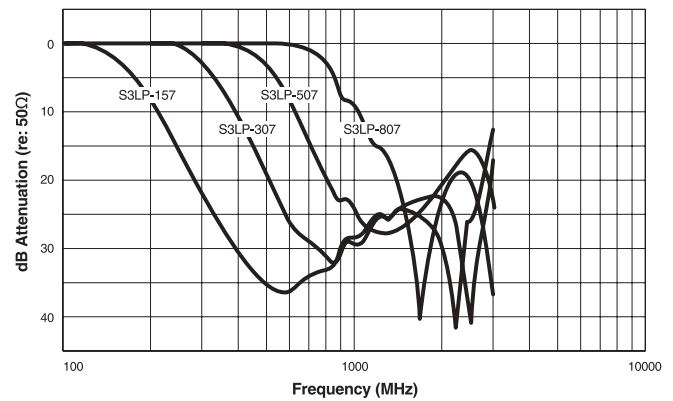
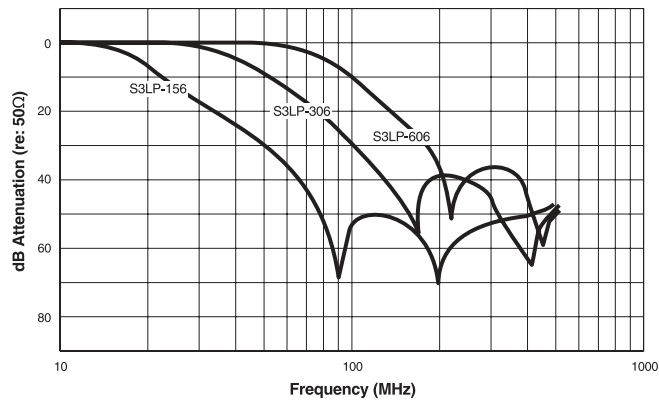
Specifications subject to change without notice. Document 124-1 Revised 10/17/02

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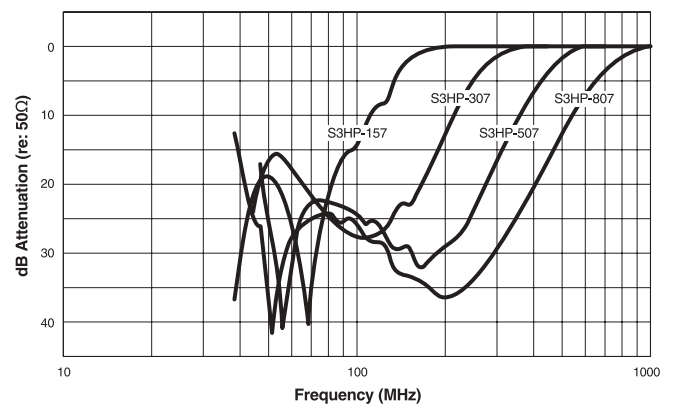
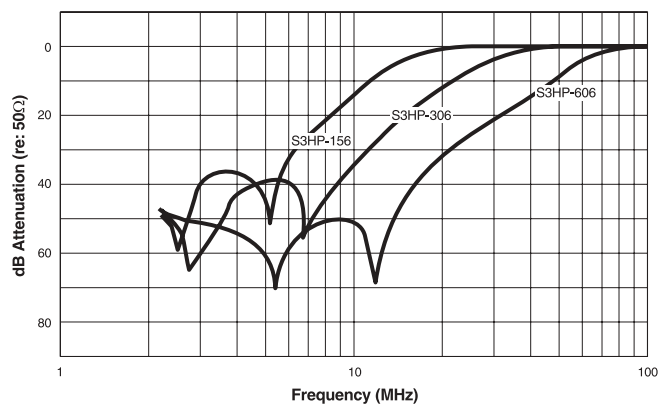
E-mail [info@coilcraft.com](mailto:info@coilcraft.com) Web <http://www.coilcraft.com>

# Surface Mount LC Filters

## Frequency Response—Low Pass Filters\*



## Frequency Response—High Pass Filters\*



\*Measured on Agilent/HP8753D network analyzer

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