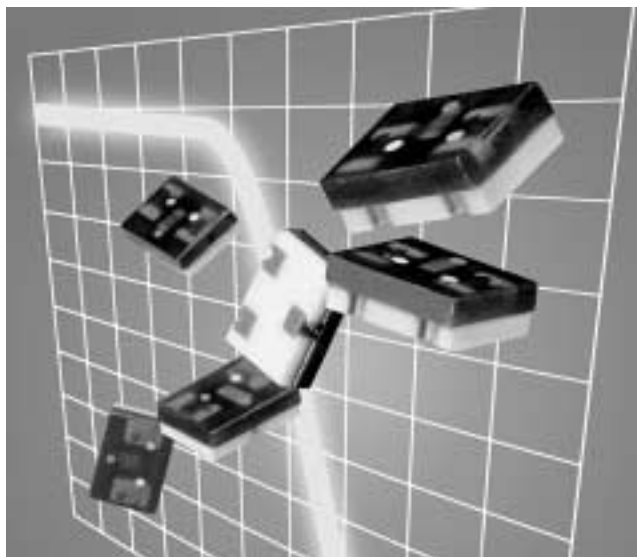# Surface Mount LC Filters

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	I_{DC} (mA)[1]
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

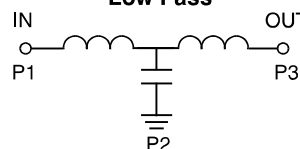| Part number	−3 dB Cutoff	I_{DC} (mA)[1]
S3HP156	15 MHz	300
S3HP306	30 MHz	300
S3HP606	60 MHz	300
S3HP157	150 MHz	300
S3HP307	300 MHz	300
S3HP507	500 MHz	500
S3HP807	800 MHz	500

1. For 15° C rise
2. Operating temperature range −40° C to +85° C.
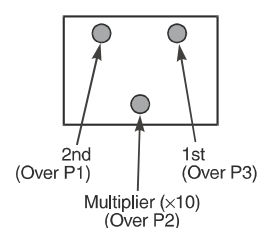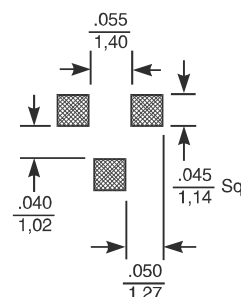3. Electrical specifications at 25° C.

.020 / 0,51
.060 / 1,52
.040 / 1,02 Sq
.090 / 2,29
.045 / 1,14
.205 / 5,21 Max
.125 / 3,18
.160 / 4,06 Max
.180 / 4,57
.085 / 2,16 Max
.050 / 1,27
.100 / 2,54

EIA Color Dots

2nd (Over P1)   1st (Over P3)
Multiplier (×10) (Over P2)

Low Pass
IN   OUT
P1   P3
P2

High Pass
IN   OUT
P1   P3
P2
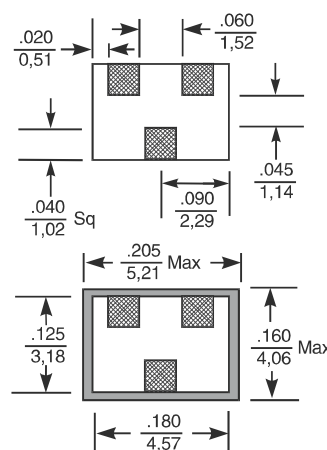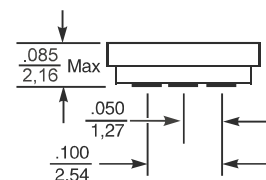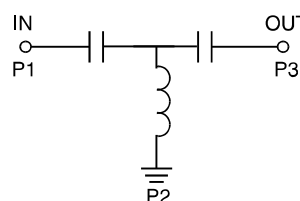
Land Pattern
.055 / 1,40
.040 / 1,02
.045 / 1,14 Sq
.050 / 1,27

Parts/reel: 7″ 600, 13″ 2,200   Tape width: 12 mm
For packaging data, see "Tape and Reel Specifications" (Document 173).

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Specifications subject to change without notice.   Document 124-1 Revised 4/9/01

Surface Mount LC Filters

FREQUENCY RESPONSE—LOW PASS FILTERS*

*Measured on HP8753D network analyzer

FREQUENCY RESPONSE—HIGH PASS FILTERS*
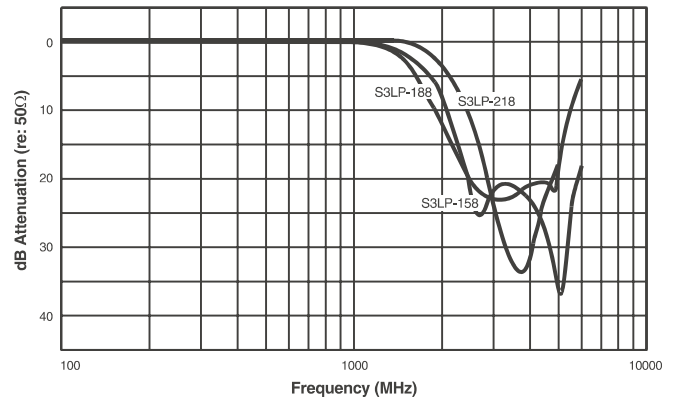

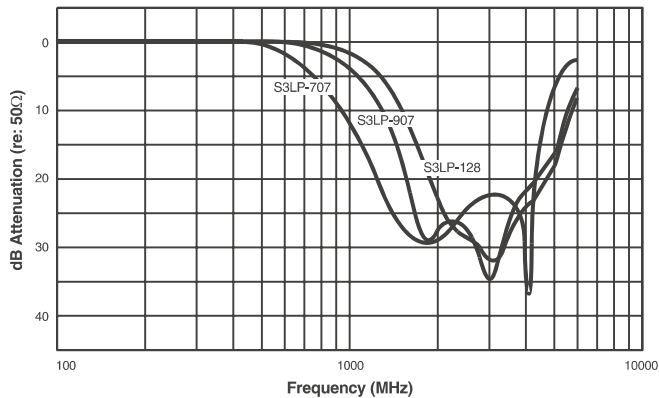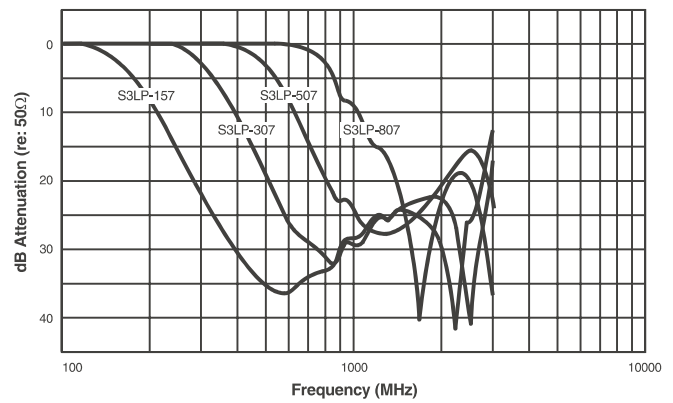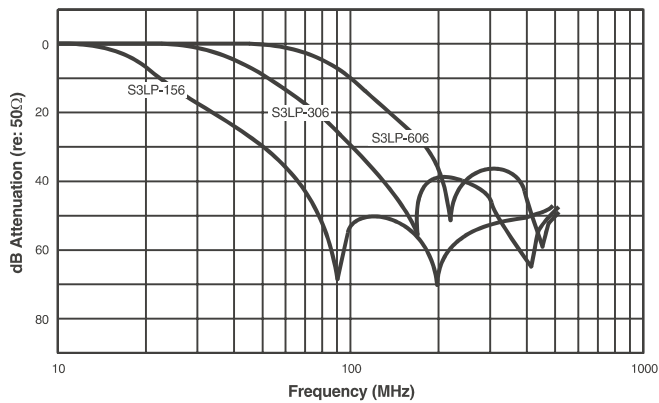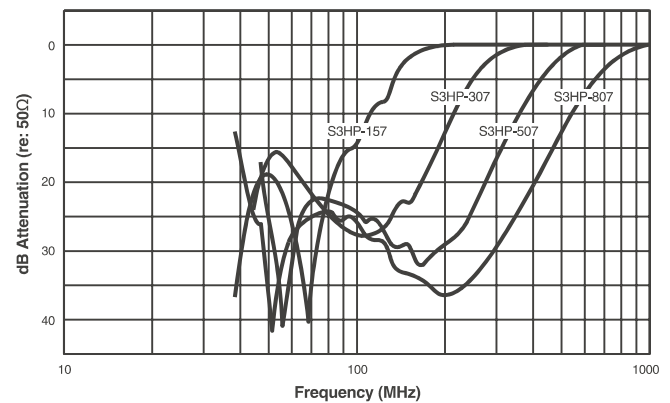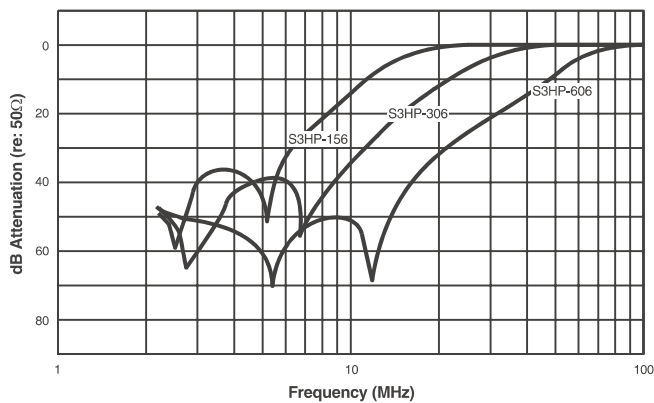*Measured on HP8753D network analyzer

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Specifications subject to change without notice.   Document 124-2 Revised 4/12/00

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