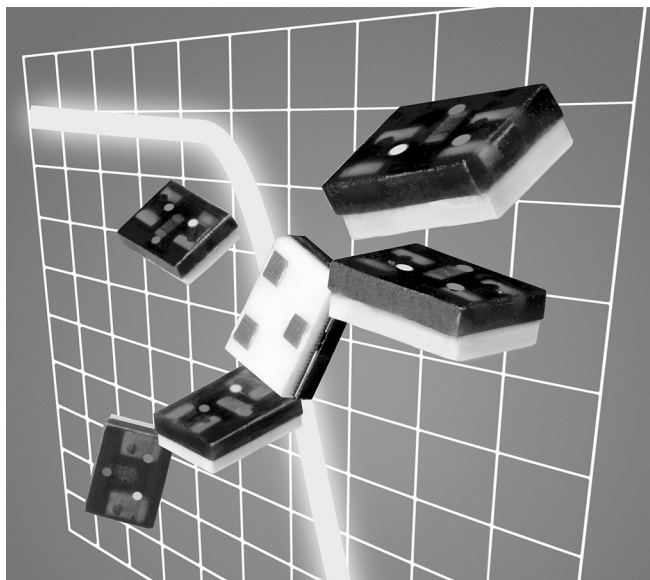




LC Filter Evaluation Modules



S3LP and S3HP filter modules should be used for evaluation purposes only. Not for production programs.

The S3LP and S3HP are fully assembled and tested demonstration units available for evaluating Coilcraft inductors in high-performance LC filter circuits.

Complete bills of material are provided for placing the filter components on production PCBs.

Filter Characteristics:

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

Low Pass Filters

Part number ¹	-3 dB Cutoff	Irms (mA) ²
S3LP156L_	15 MHz	200
S3LP306L_	30 MHz	300
S3LP606L_	60 MHz	300
S3LP157L_	150 MHz	400
S3LP307L_	300 MHz	400
S3LP507L_	500 MHz	500
S3LP707L_	700 MHz	500
S3LP807L_	800 MHz	500
S3LP907L_	900 MHz	500
S3LP108L_	1.0 GHz	500
S3LP128L_	1.2 GHz	500
S3LP158L_	1.5 GHz	500
S3LP188L_	1.8 GHz	500
S3LP218L_	2.1 GHz	500

1. When ordering, please specify **packaging** code:

S3HP156LC

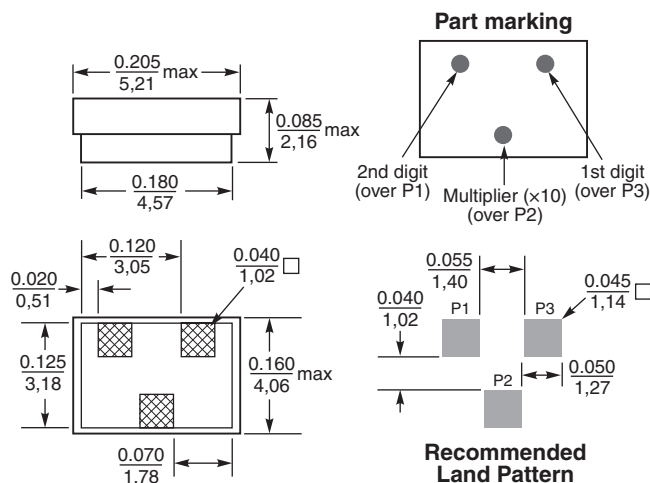
- Packaging:** C = 7" machine-ready reel. EIA-481 embossed plastic tape (600 parts per full reel).
 B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter C instead.
 D = 13" machine-ready reel. EIA-481 embossed plastic tape (2200 parts per full reel).

2. Current that causes a 15°C rise from 25°C ambient.
 3. Operating temperature range -40°C to +85°C.
 4. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering

High Pass Filters

Part number ¹	-3 dB Cutoff	Irms (mA) ²
S3HP156L_	15 MHz	300
S3HP306L_	30 MHz	300
S3HP606L_	60 MHz	300
S3HP157L_	150 MHz	300
S3HP307L_	300 MHz	300
S3HP507L_	500 MHz	500
S3HP807L_	800 MHz	500



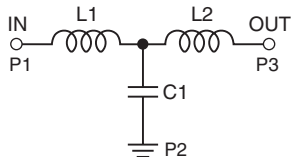
Visit [RF Inductors – Color Coding](#) for color coding explanation.



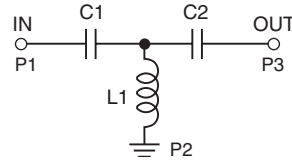
Surface Mount LC Filters

S-Parameter files
ON OUR WEB SITE

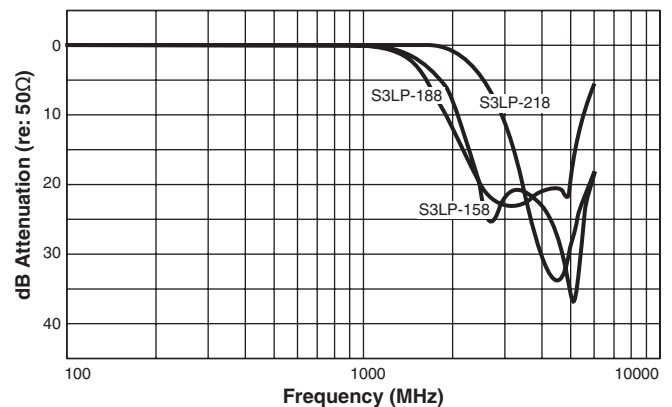
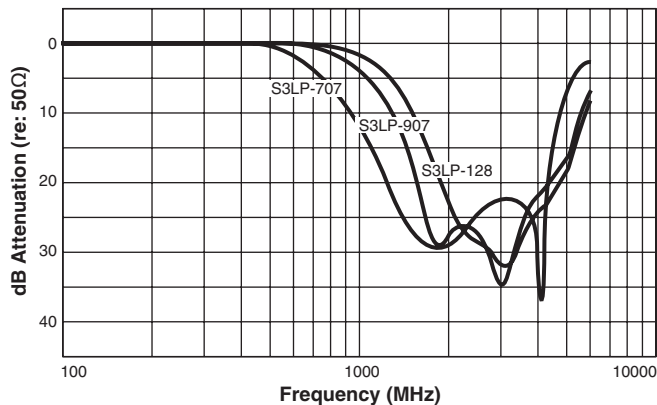
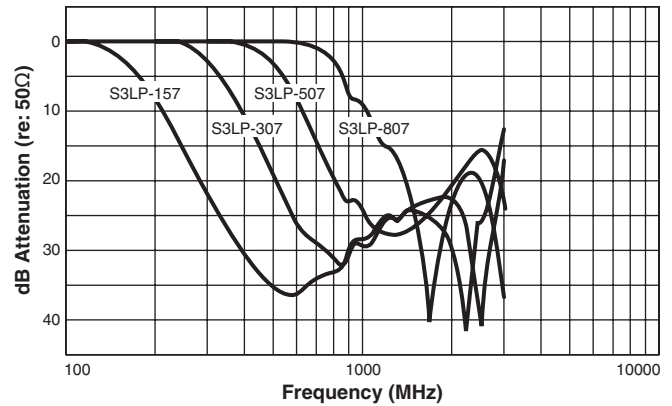
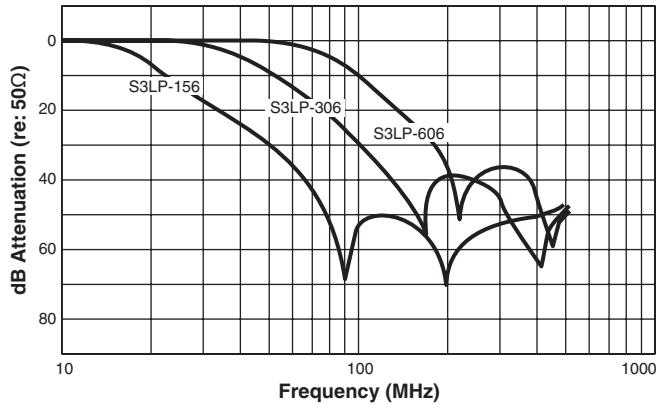
Low pass filter



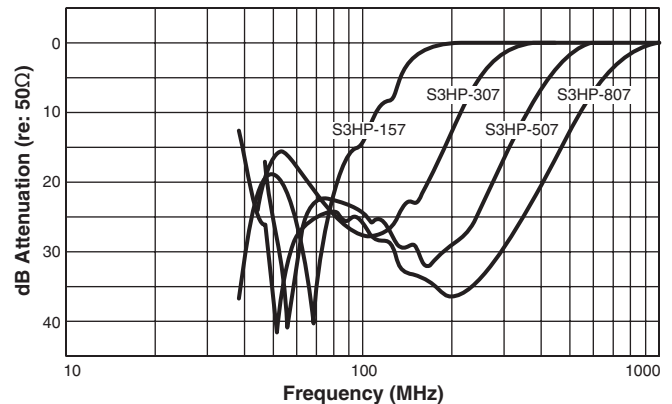
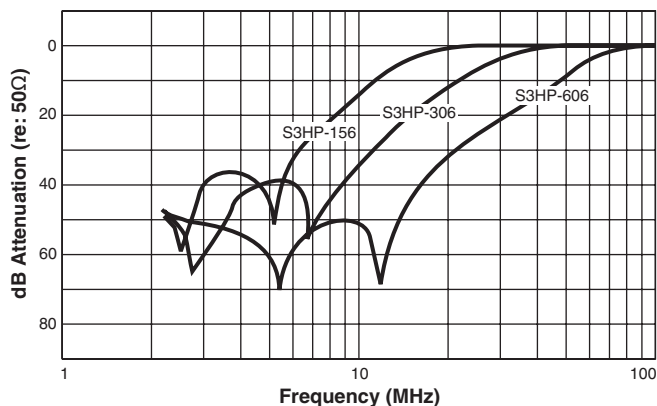
High pass filter



Frequency Response—Low Pass Filters*



Frequency Response—High Pass Filters*



*Measured on Agilent/HP 8753D network analyzer



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