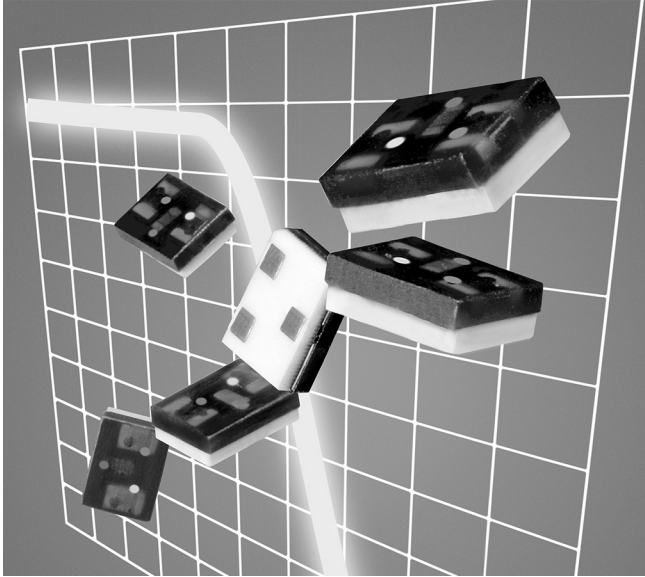




Surface Mount LC Filters



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

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

Designer's Kit D302 contains 3 of each value

Terminations RoHS compliant silver over copper or gold over nickel over silver

Weight 64.7 – 69.0 mg

Ambient temperature –40°C to +85°C

Storage temperature Component: –40°C to +85°C.

Tape and reel packaging: –40°C to +80°C

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

Failures in Time (FIT) / Mean Time Between Failures (MTBF)

12 per billion hours / 83,333,333 hours, calculated per Telcordia SR-332

Packaging 600/7" reel; 2200/13" reel Paper tape: 12 mm wide, 0.3 mm thick, 8 mm pocket spacing, 2.3 mm pocket depth

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).

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

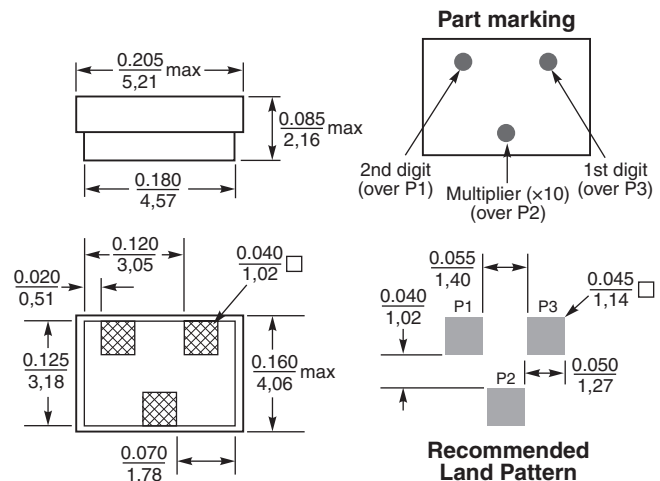
- Packaging:** C = 7" machine-ready reel. EIA-481 embossed plastic tape (600 parts per full reel).
 B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter C instead.
 D = 13" machine-ready reel. EIA-481 embossed plastic tape (2200 parts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

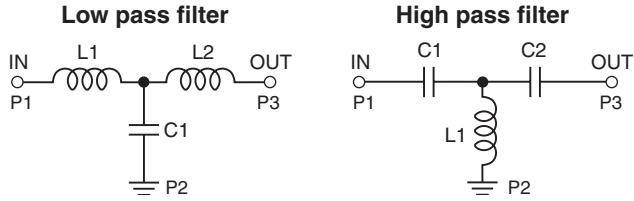


Visit [RF Inductors – Color Coding](#) for color coding explanation.

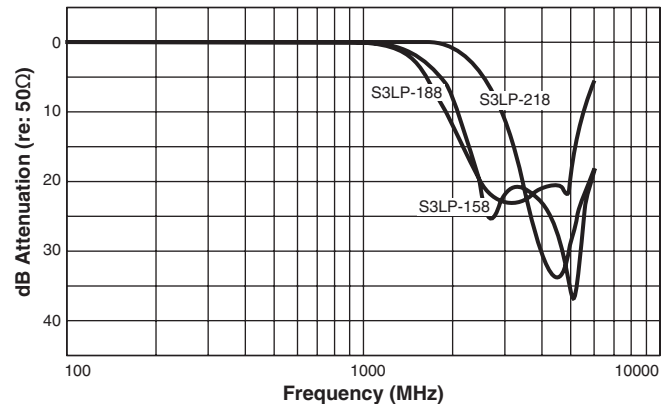
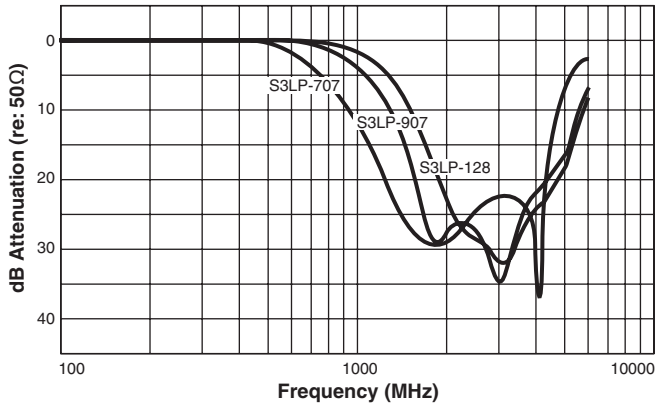
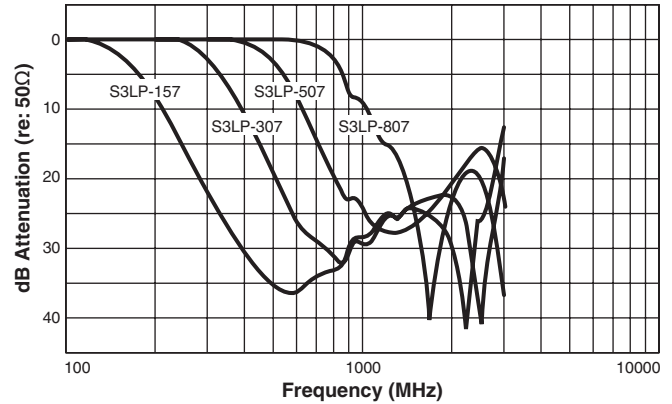
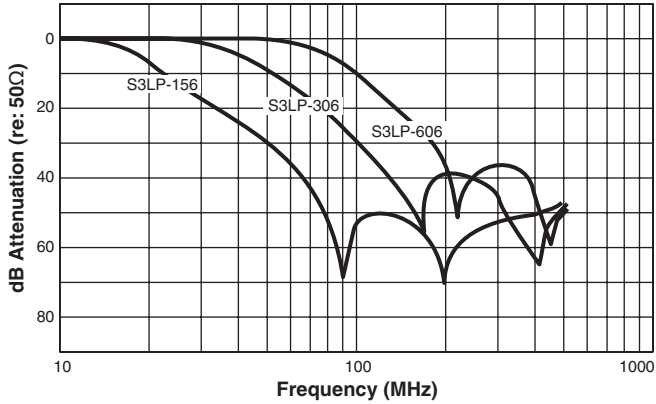


Surface Mount LC Filters

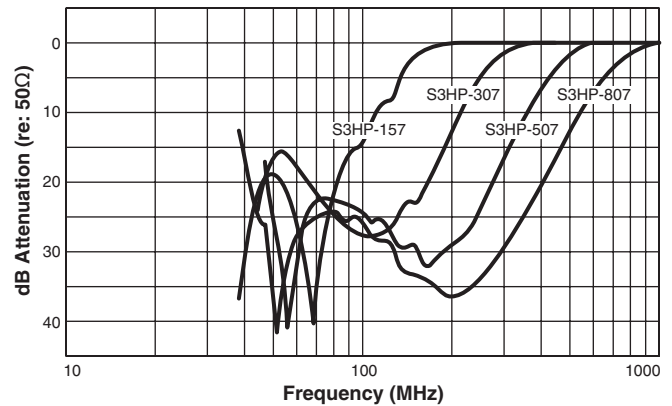
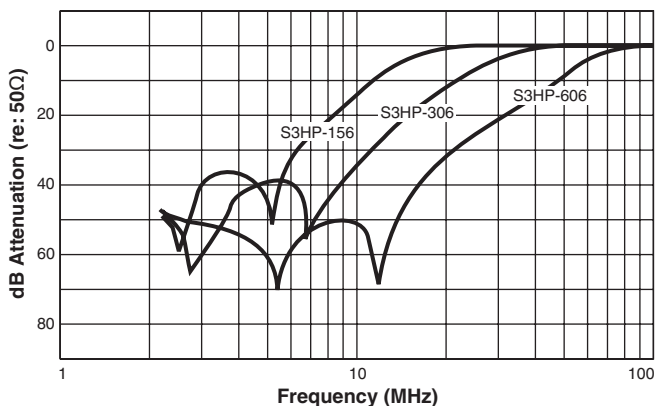
S-Parameter files
ON OUR WEB SITE



Frequency Response—Low Pass Filters*



Frequency Response—High Pass Filters*



*Measured on Agilent/HP 8753D network analyzer



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