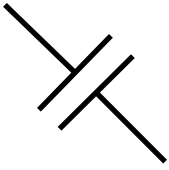


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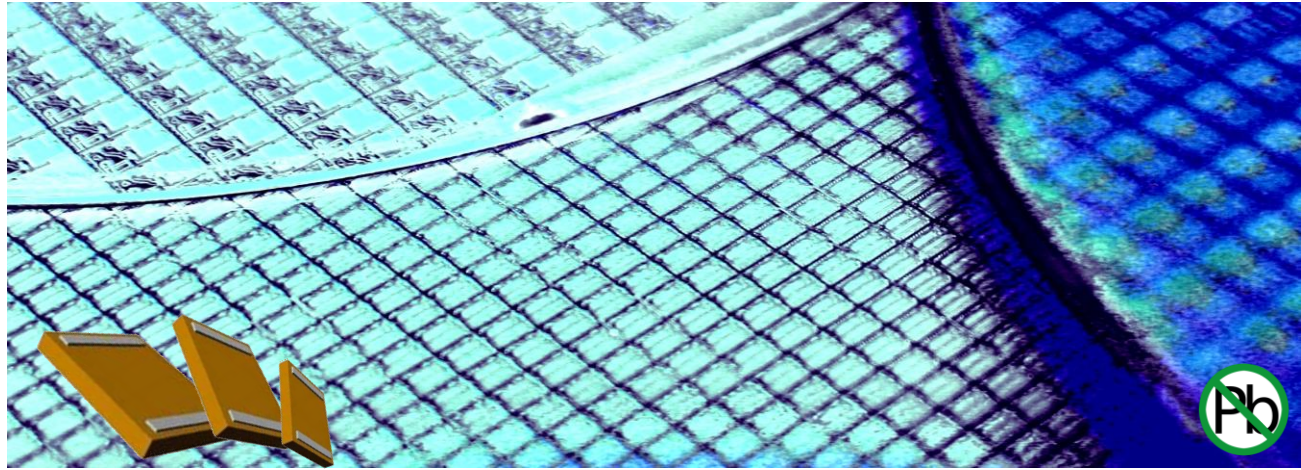
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LPSC424.xxx - 0402 Low Profile Silicon Capacitor

Rev 3.1



Key features

- Ultra low profile (100µm)
- High stability of capacitance value:
 - ◆ Temperature $<\pm 0.5\%$ (-55°C to +150°C)
 - ◆ Voltage $<0.1\%$ /Volts
 - ◆ Negligible capacitance loss through ageing
- Unique high capacitance in EIA/0402 package size, up to 100 nF
- High reliability (FIT <0.017 parts / billion hours)
- Low leakage current down to 100 pA
- Low ESL and Low ESR
- Suitable for lead free reflow-soldering *Please refer to our assembly Application Note for further recommendations

Thanks to the unique IPDiA Silicon capacitor technology, most of the problems encountered in demanding applications can be solved.

Low Profile Silicon Capacitors are available with **thicknesses down to 80µm** and are the most appropriate solution in applications with height constraints.

LPSC is the perfect choice for embedded technologies, modules, systems in package, when designers are looking at **utmost decoupling behaviours**.

The Silicon capacitor technology offers a capacitor integration capability (up to 250nF/mm²) which allows **downsizing** compared to Tantalum and MLCC.

Key applications

- All demanding applications, such as medical, telecom, computer industries
- Decoupling / Filtering / Charge pump (i.e.: Pacemakers / mobile phones)
- High reliability applications
- Devices with battery operations
- Extreme miniaturization
- Suitable for Embedded technologies

The IPDiA technology features **high reliability**, up to 10 times better than alternative capacitor technologies such as Tantalum or MLCC, and eliminates cracking phenomena.

Silicon Capacitor technology also offers a very stable capacitor value over the full operating voltage & temperature range, with a high and stable insulation resistance.

This Silicon based technology is RoHS compliant and compatible with lead free reflow soldering process.

