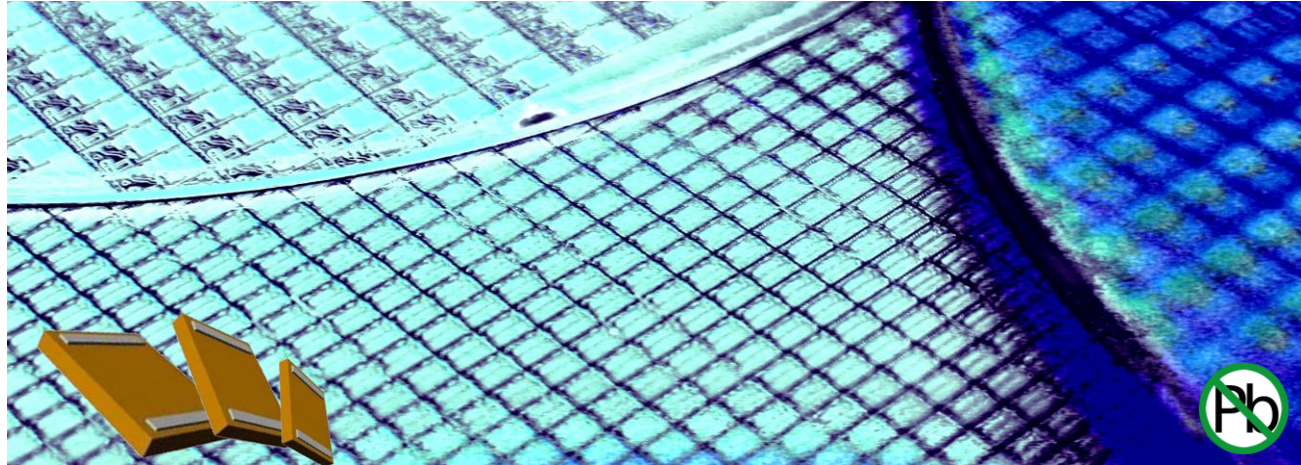


XTSC429.xxx - 1812 Extreme Temperature Silicon Capacitor

Rev 3.1



Key features

- Ultra High temperature up to 250°C:
 - ◆ Temperature Coeff : <1.5% (-55 °C to +250 °C)
 - ◆ Voltage <0.1 %/V
 - ◆ Negligible capacitance loss through aging
- Unique high capacitance in EIA/1812 package size, up to 3.3 μ F
- High reliability (FIT <0.017 parts / billion hours)
- Low leakage current technology down to 3nA
- Low ESL and Low ESR
- Suitable for lead free reflow-soldering *Please refer to our assembly Application Note for further recommendations

Key applications

- 250°C requirements, High temperature applications, such as military, aerospace, automotive and down-hole industries.
- High reliability applications
- Replacement of X8R and COG dielectrics
- Decoupling / Filtering / Charge pump (i.e.: pressure sensor, motor management)
- Downsizing

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

EXtreme Temperature Silicon Capacitors are appropriate for applications used in extreme operating temperature range (up to **250°C**).

XTSC industry leading performances allows to propose a **3.3 μ F in 1812** with a **TC<1,5%** over the full -55°C/+250°C temperature range.

This technology also offers a **negligible ageing** and a stable insulation resistance, even at very high temperature, as well as a stable capacitor value over the full operating.

The IPDiA technology features a capacitor integration capability (up to 250nF/mm²) which allows a capacitance value similar to X8R dielectric, but with better electrical performances than COG/NPO dielectrics.

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

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

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