murata
INNOVATOR IN ELECTRONICS

Murata Ultra Broadband Silicon Capacitors up to 220GHz

3D Silicon Capacitors

High stability in temperature
Up to 250°C environments

Signal stability over frequency
Up to 110 GHz applications

Stability regarding voltage
For 1000V applications

Stability over ageing
Minimum lifetime of 10 years

Extreme low thickness
Down to less than 50 µm

Capacitance value depends on electrode surface

3D Silicon structures enable a higher capacitance density
Custom silicon interposers
With Integrated Broadband RC

**Standard AlN* Interposer**
- Miniaturization
- High temperature (125°C)
- Full BOM integration
- High reliability
- Best electrical solution:
  - wide frequency response flatness
  - low variation versus temperature
  - low insertion loss
- Total cost reduction

**Optimized Silicon Interposer**

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*AIN: Aluminium Nitride*
Learn more about our Silicon Capacitors thanks to our web portal www.murata.com or through our dedicated catalog: