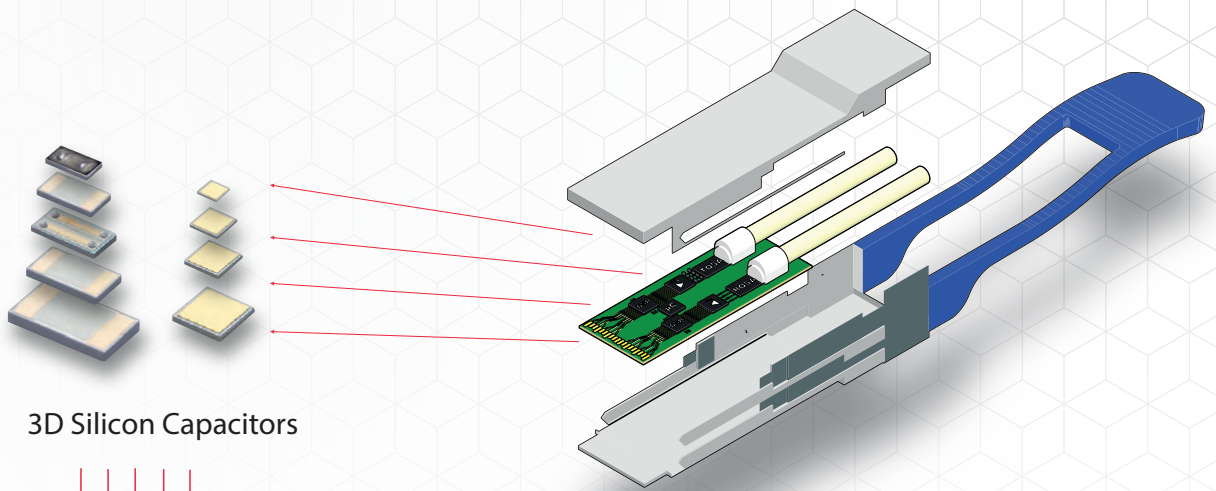


Murata

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 **1000 V** applications



Stability over ageing

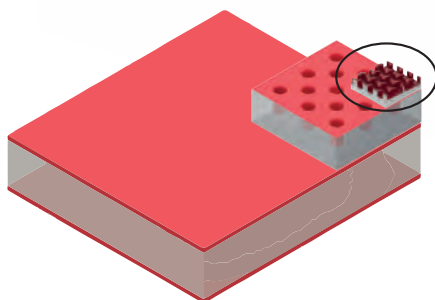
Minimum lifetime of **10 years**



Extreme low thickness

Down to less than **50 μm**

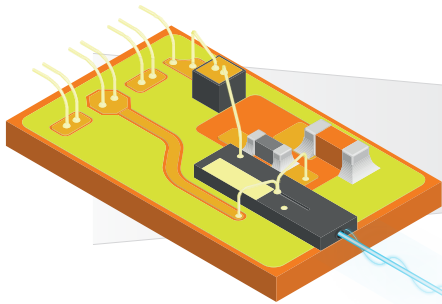
Capacitance value depends on electrode surface



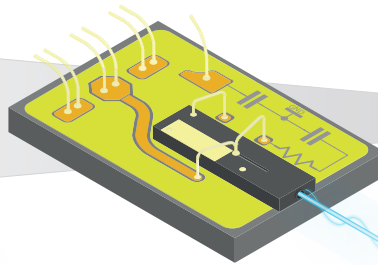
3D Silicon structures enable a higher capacitance density

Custom silicon interposers With Integrated Broadband RC

Standard
AlN* Interposer

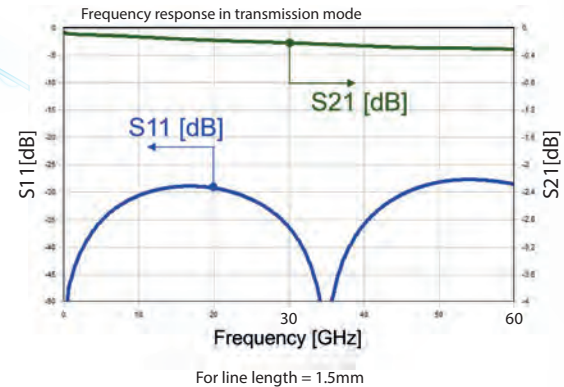
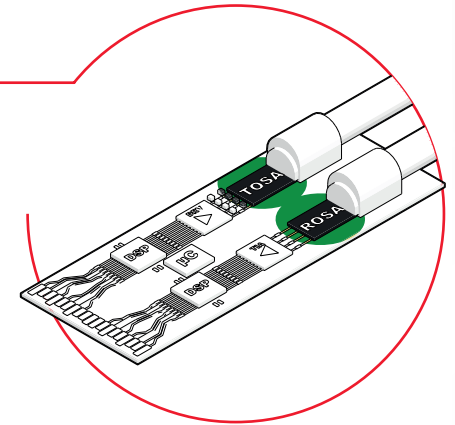


Optimized
Silicon Interposer



- 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

Integration
Performances



*AlN: Aluminium Nitride

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Silicon Capacitors
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web portal www.murata.com
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