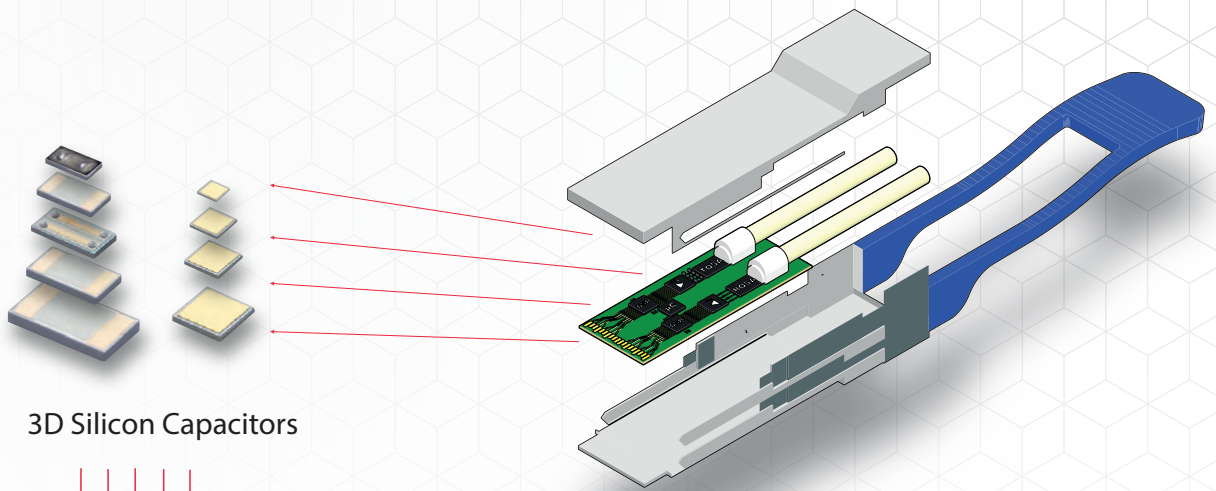


Murata

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

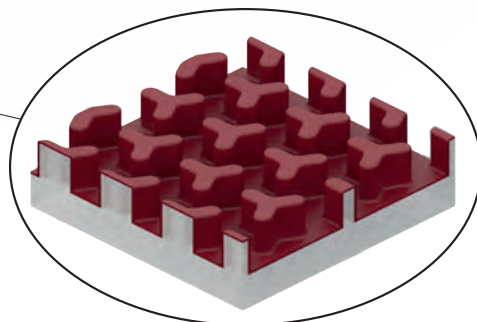
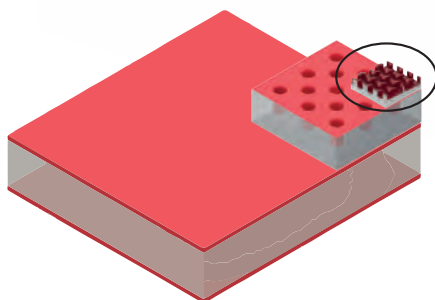
Minimum lifetime of **10 years**



Extreme low thickness

Down to less than **50 μm**

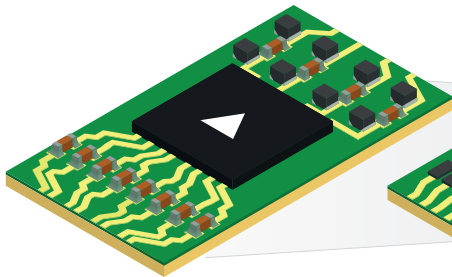
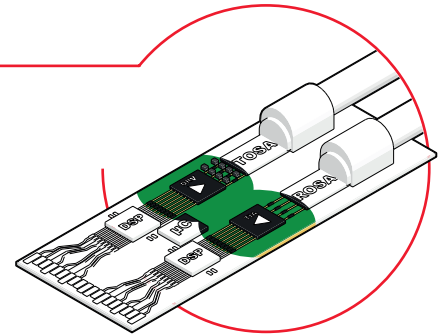
Capacitance value depends on electrode surface



3D Silicon structures enable a higher capacitance density

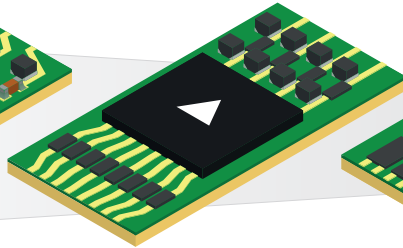
Differential AC coupling For Ultra Broadband Signal Lines

Extreme compactness for differential pair lines routing and bias-T integration



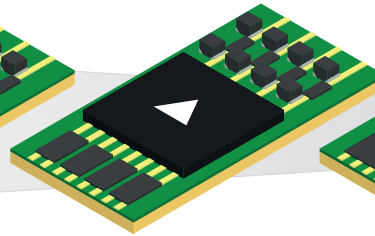
Standard MLCC Solution

High electrical parasitics
No differential pair lines
Long routing



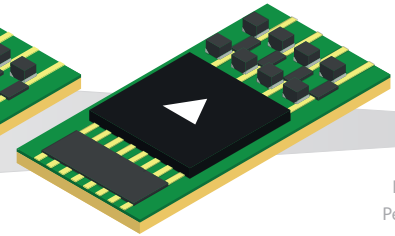
Standard Silicon Capacitor

(ULSC, BBSC, UBSC, XBSC)
Ultra-low parasitics
Pseudo differential pair lines
No GND void required
Ultra low insertion loss
Less cross talk



Standard Differential Si. Capacitors Pair (UBDC)

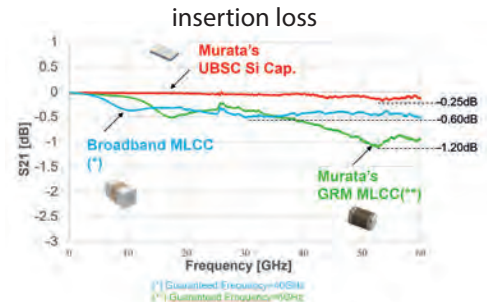
Same advantages as Silicon Capacitor plus:
- PCB saving
- Perfectly differential
- Higher signal/noise ratio



Custom Quad Differential Pairs

Optimized for Silicon Photonics Transceivers

Integration + Performances



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web portal www.murata.com
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