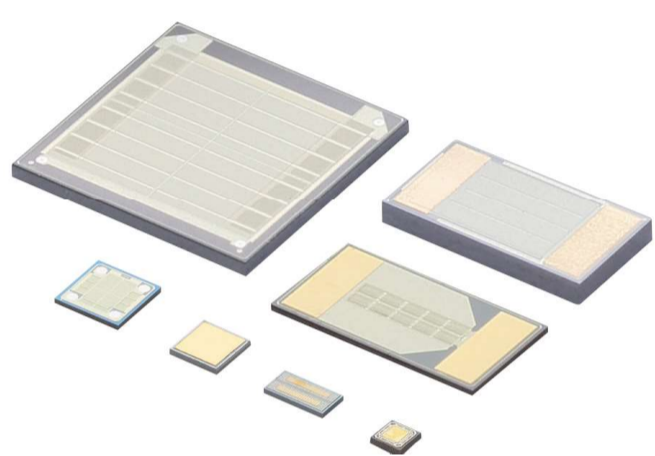







# Silicone Capacitors

## Solder Mounting, Wire-bonding Vertical, Wire-bonding / Embedded Horizontal

Murata silicon capacitors have been developed with a semiconductor MOS process and are using 3D structures to substantially increase the electrode surfaces, and increase the capacitance for a given footprint. Murata silicon technology is based on a monolithic structure embedded in a non-crystalline substrate (single MIM and multi-MIM – Metal Insulator Metal).

### Key Features / Advantageous



-  **High stability in temperature**  
Up to **250°C** environments(\*)
-  **Signal stability over frequency**  
Up to **110 GHz** applications(\*\*)
-  **Stability regarding voltage**  
For applications up to **450V**
-  **Stability over ageing**  
Minimum lifetime of **10 years**
-  **Extreme low thickness**  
Down to less than **50 µm**

### Key Applications / Use Cases



Optical



Automotive



RFPA Modules  
for Base Station



Medical



Mobile  
and HPC

### Products & Specifications

• Ultra broadband surface mounted capacitor up to 100GHz
• Ultra Broadband surface mounted differential Si capacitor pairs
• Ultra large-band wire-bondable vertical capacitor up to 26GHz+
• Wire-bondable vertical low profile capacitor down to 100µm
• Medical grade capacitor
• Automotive high temperature capacitor up to 200°C
• Automotive range
• Wire bondable automotive vertical silicone capacitors
• Ultra broadband wire-bondable embedded capacitor up to 60GHz+
• High temperature capacitor up to 250°C
• High stability and reliability capacitor
• Low profile capacitor down to 100m ceramic

For detail, please visit below our website

<https://www.murata.com/en-sg/products/capacitor/siliconcapacitors>

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