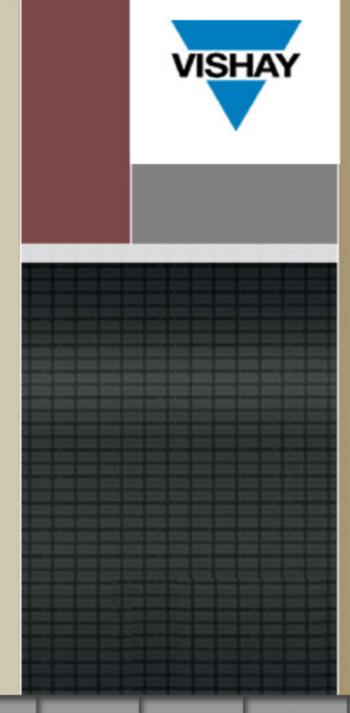
High-Precision Silicon-Based RF Capacitors

Solves Users' Assembly Problems
While Extending High Q and
SRF Beyond 15 GHz





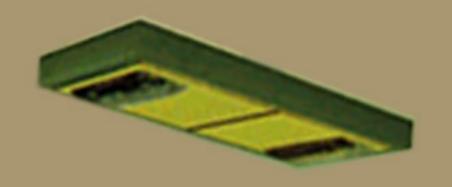
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HPC Silicon Chip Capacitors Chip Sizes

0201

0402

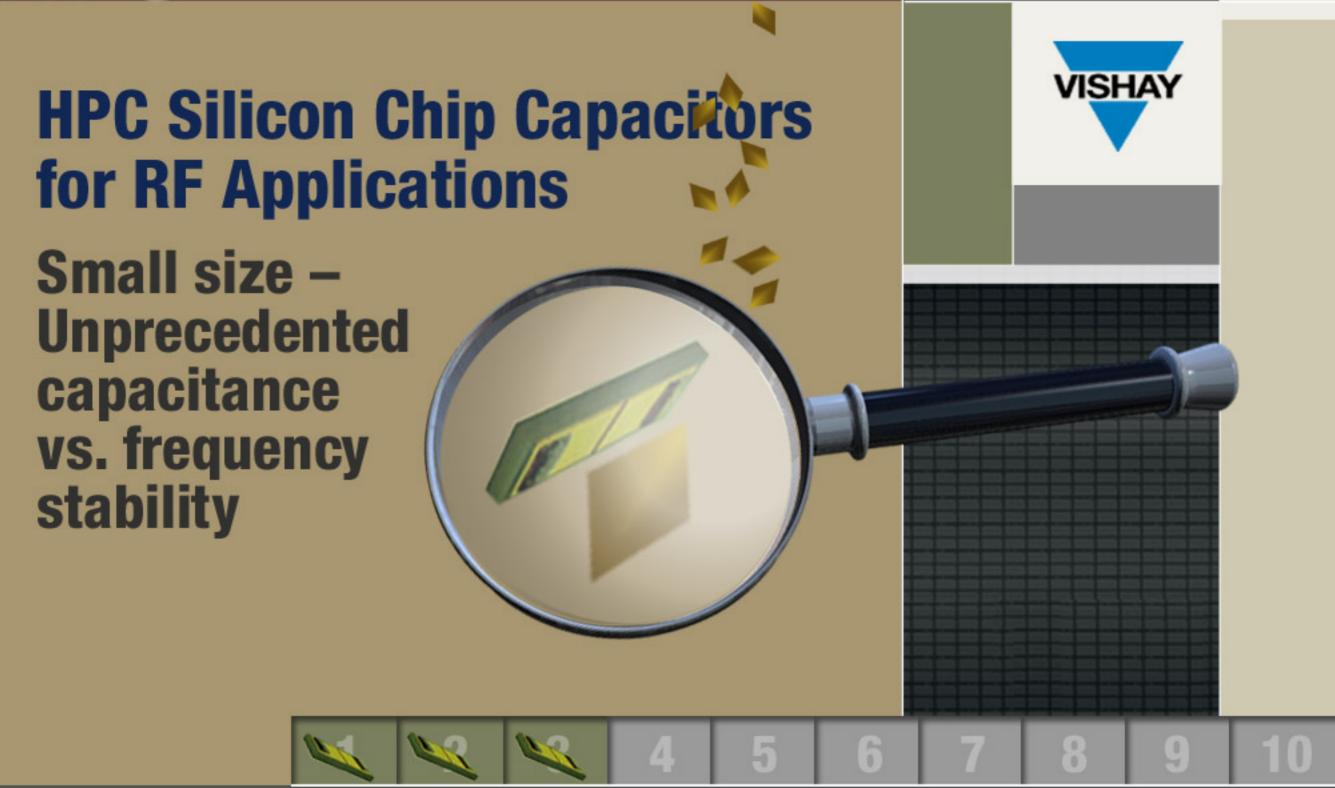
0603



Single-sided contact eliminates tombstone effect and improves board assembly







HPC Silicon Chip Capacitors For Smart Card Applications

- High Q more than 1000 @ 1 GHz for 1.2 pF (0402)
- Low ESR under .18 Ω @ 1 GHz for 1.2 pF (0402)
- Low parasitic inductance ~0.035 nH
- High SRF above 15 GHz
- Up to 180 pF and thickness of .18 mm (0402)





HPC Silicon Chip Capacitors Tight Tolerances

- = A: \pm 0.05 pF
- B: ± 0.10 pF
- C: ± 0.25 pF
- F: ± 1 %
- G: ± 2 %
- J: ± 5 %

Extremely stable capacitance in wide range of frequencies (1 MHz to 15 GHz)









0201 > 0.1 pF to 39 pF

0402 > 0.1 pF to 180 pF

0603 > 0.2 pF to 560 pF



For applications in wireless communications devices such as mobile and cordless phones, GPS systems, VCOs, filter and matching networks, RF modules, and base stations.









HPC Silicon Chip Capacitors

Providing Excellent Capacitance Stability vs. Frequency

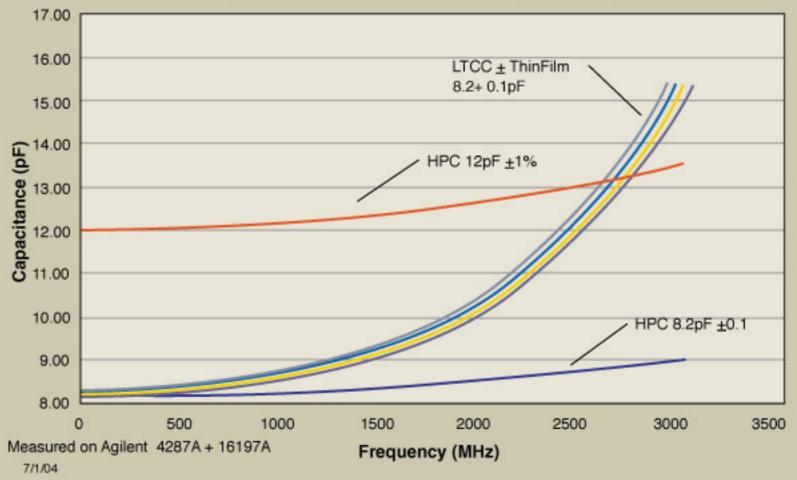
From 1 MHz to 15 GHz





HPC Silicon Chip Capacitors

Capacitance vs. Frequency







Design Kits available in sizes 0201, 0402, 0603

For applications in wireless communications, VCO, filter and matching networks, RF power amplifiers, DC blocks, RF modules, GPS, GSM



























HPC Silicon Chip Capacitors
The High-Performance Capacitor
For RF Applications