KONNEKT™
High Density Packaging

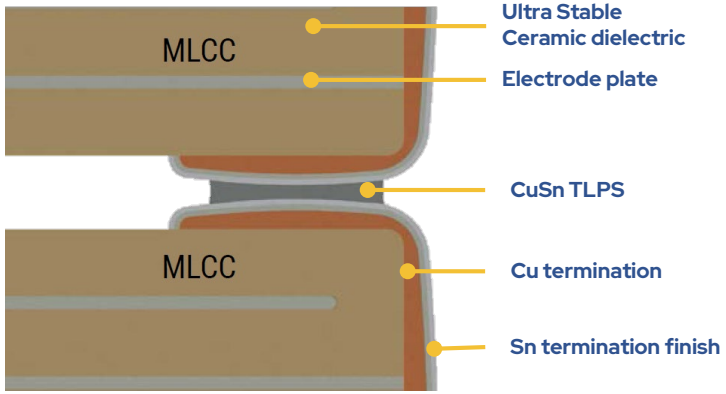
MULTILAYER CERAMIC CAPACITORS

U2J with KONNEKT Technology

Overview

KEMET's U2J with KONNEKT™ technology surface mount capacitors are designed high-efficiency and high-density power applications. KONNEKT utilizes an innovative Transient Liquid Phase Sintering (TLPS) material to create a leadless multi-chip solution. When combined with KEMET's ultra stable U2J dielectric, KONNEKT enables a low-loss, low-inductance package capable of handling extremely high ripple currents in the hundreds of kilohertz.

Construction



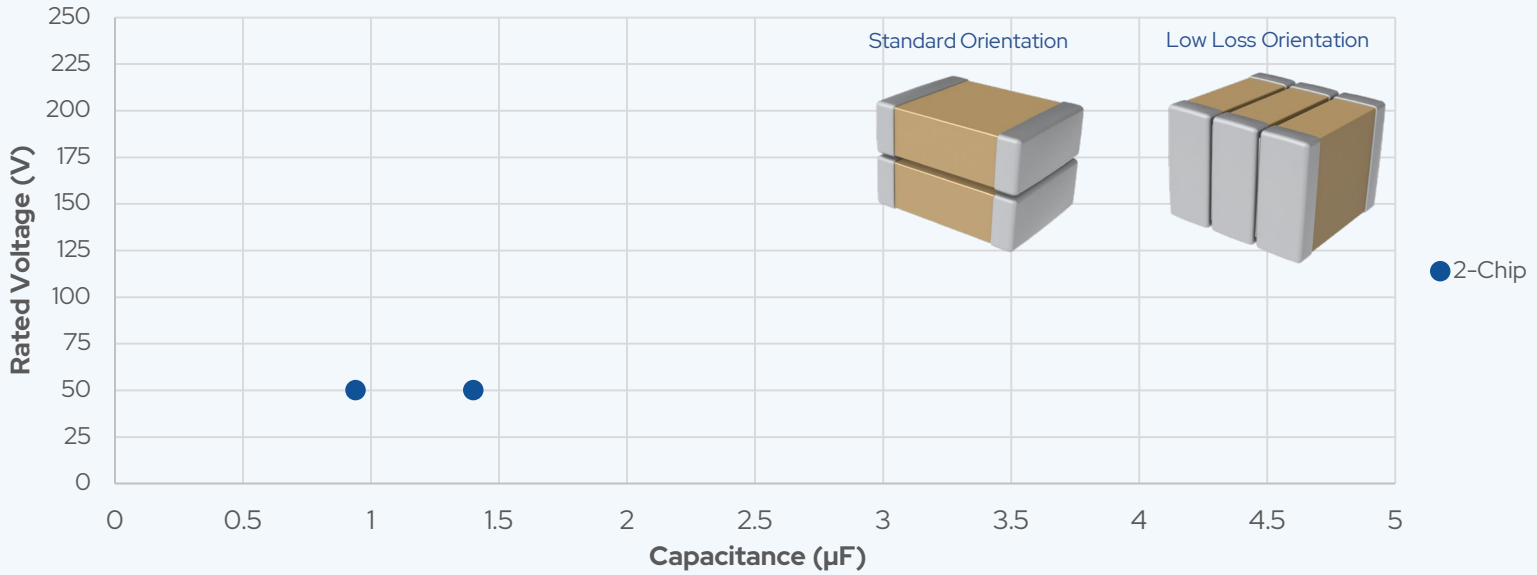
Benefits

- Stable capacitance with temperature, frequency, and voltage
- Extremely high-power density and ripple current capability
- Ultra-low ESR: 1.3 mΩ
- Ultra-low ESL: 0.4 nH
- Surface mount capable with standard reflow

Electrical Characteristics

Operating Temperature	-55°C to +125°C
Rated Capacitance	0.94 uF and 1.4 uF (±5% tol.)
Typical ESR at 100 kHz	1.3 mΩ max
Rated Voltage	50 V
EIA Case Size	1812

U2J with KONNEKT Selection Guide



Part Number System

C 1812 C 145 J 5 J L C

- Series - Ceramic
- Case Size (L" x W") - 1812
- Specification – C: Standard
- Cap Code – 145: **14**x10^**5** pF
- Tolerance code – J: 5%
- Rated Voltage – 5: 50 V
- Dielectric – J: U2J
- Subclass – L: KONNEKT
- Termination – C: 100% Sn

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https://ec.kemet.com/KONNEKT