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Vishay's Conformal Coated Capacitors Meet Reliability Requirements for Hybrid Microcircuits in Space Applications

Recent updates to the MIL-PRF-38534 Revision L performance specification for hybrid microcircuits call for more rigorous testing and reliability requirements for space applications. Vishay is capable of meeting the highest quality assurance levels provided for in this specification with our Hi-Rel COTS T95 and T97 series, and military-qualified MIL-PRF-55365 and DLA 13008 and 14002 series tantalum capacitors. Class K is the highest reliability level provided for in this specification, and is intended for space applications. Class K includes 100 % surge current C, Weibull C (0.01 %) failure rate level, 3 sigma cull for DF, ESR, and DC leakage, and X-ray. A sample is also submitted to a 2000 hour life test at high temperatures. Class H is a military-quality level.

In addition to reliability, we also offer best in class capacitance and voltage ratings (22 μ A – 75 V, 47 μ A – 50 V, 470 μ A – 20 V, and / or 1000 μ A – 10 V). Vishay's conformal coated capacitors are also used in many other filtering and bulk capacitance applications in space.

Additional Key Advantages

- High energy density
- Low ESR (*as low as 18 m Ω*)
- Low DCL (*as low as 0.5 μ A*)
- Sn / Pb terminations
- 100 g shock and 20 g vibration

Useful Links

- T95 product page www.vishay.com/ppg?40081
- T97 product page www.vishay.com/ppg?40092
- DLA 13008 product page www.vishay.com/ppg?40164
- DLA 14002 product page www.vishay.com/ppg?40172

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