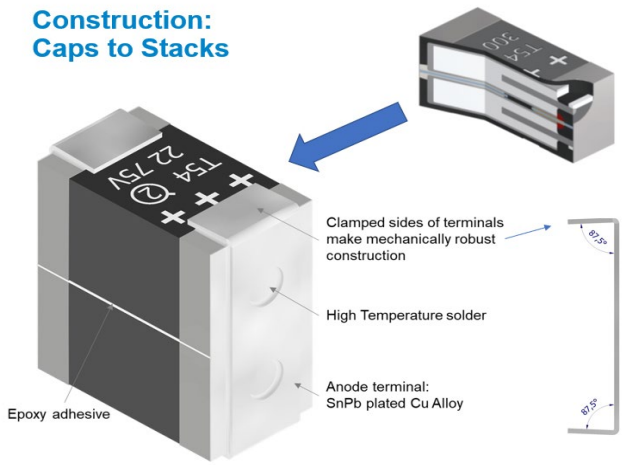
Vishay Introduces Stacked Polymer Tantalum Capacitors for Higher Capacitance Values

Many designs require the use of high capacitance values for bulk energy storage. This is typically achieved by using multiple capacitors in parallel. Tantalum polymer devices are quite often the best choice for these applications, due to their volumetric efficiency, low ESR, stable electrical parameters, high reliability, and long service life.

For space-constrained applications, Vishay has introduced its stacked polymer tantalum capacitors. The surface-mount solutions offer higher capacitance and voltage values in a relatively small footprint. This allows circuit designers to maximize the use of available height to minimize component counts, thus reducing total board space requirements.



Key Parameters

- Offered in stacks of 2, 3, 4, or 6
- Capacitance range: 30 µF to 2800 µF
- Voltage range: 16 VDC to 75 VDC
- Operating temperature: -55 °C to +125 °C
- Case sizes: EE, E2, E3, E4, E6

Useful Links

- T54 datasheet http://www.vishay.com/doc?40212
- T54 product page http://www.vishay.com/ppg?40212

Key Advantages

- Reduce board space compared to traditional single capacitor based solutions
- Stacked polymer capacitors make better use of available height in customer designs
  - ***Designers can choose the maximum height:***
    - 4.3 mm
    - 8.9 mm
    - 13.3 mm
- High reliability (reduced infant mortality (*Vishay patented DCL test*); long service life)
- High energy density / low ESR
- Very high ripple current capacity
- Both 100 % tin (RoHS-compliant) and tin / lead (Pb) terminations are available
- ***Custom stacked polymer designs also available!***

If you are looking to cross an existing stacked polymer capacitor, contact one of our experts listed below.

Contact Information		
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