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TMCJ and Low ESR TR3 Series Capacitors Offer an Alternative to Polymer Tantalum Devices

The rapid expansion of AI servers and data centers has extended polymer tantalum capacitor lead times beyond typical standards. If the lead time for polymer is not adequate, Vishay's TMCJ and low ESR TR3 series devices offer a reliable alternative, with broad capacitance, voltage, and footprint options suited for diverse applications.

TR3 / TMCJ Series	T55 Series	EIA Size
TMCJ	T55J	1608-09
TR3A	T55A	3216-18
TR3B	T55B	3528-21
TR3C	T55C	6032-28
TR3D	T55D	7343-31
TR3E	T55X	7343-43

If technological requirements need derating, reference Vishay's whitepaper for guidance – [Derating Tantalum Capacitors](#)

Key Advantages:

- Shorter lead time of 12 to 22 weeks
- TR3 series is surge current tested: Selected ratings for A and B cases and all C, D, E, and W ratings
- TMCJ series package size is equivalent to 0603
- Qualified to EIA-717

Useful Links

- Datasheets: [TR3](#) and [TMCJ](#)
- Product Pages: [TR3](#) and [TMCJ](#)
- [Application Note](#)
- [Frequently Asked Questions](#)

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To ensure reliable long term performance, capacitor derating criteria must be considered.