

Tantalum Capacitors Offer Very Low ESR Ratings in C Case Size

A new low ESR tantalum capacitor range which includes $150\mu\text{F}$; for the first time $150\mu\text{F}$; low ESR $330\mu\text{F}/6.3\text{V}$ parts in a C case size (6032-26) is available from AVX Corporation. Previously, the only low ESR option within this capacitance/voltage (C/V) ratio was only available in the larger D case size (7343-31). With an ESR as low as $80\text{m}\Omega$, TPS Series capacitors are suitable for smoothing and filtering on 3.3 V power rails, a common output voltage of DC/DC converters. Thanks to its high capacitance capability, the TPS Series capacitors can also be used for battery support in handheld devices, where small size is a key design requirement. The TPS Series tantalum capacitors have a maximum direct leakage current of $19.8\mu\text{A}$ and a maximum dissipation factor at 120 Hz of 12%. Operating temperature range is -55°C to $+125^\circ\text{C}$. In addition, these devices meet the requirements of AEC-Q200 for the automotive industry.

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