



SMT Polymer Cathode Tantalum Electrolytic Capacitors

NTP Series

Ideal for **low voltage-high current**: DC-DC converters /Power Supplies /Voltage Regulator Modules / Power Management applications.

- Replace & Reduce Multiple Parts
- Direct Cross / Drop-In Replacements
- Improved safety: Polymer cathode suppresses combustion

FEATURES

- Lowest ESR Of Chip Tantalum Types
- Short Lead Times
- Standard P, A, B, C, D Case Sizes



Specifications

Capacitance Value Range	3.3µF ~ 330µF
Capacitance Tolerance	±20% (M)
Operating Temperature Range	-40°C ~ +105°C (+125°C extended range also available)
Voltage Rating (WVDC) Range	4, 6.3 & 10 VDC
Dissipation Factor	0.09 ~ 0.30 (120Hz, +20°C)
ESR	0.025 ~ 0.80 (100KHz, +20°C)
Ripple Current Rating	0.265 ~ 1.83Arms max. (100KHz, +85° ~ +25°C)
Leakage Current @ WVDC	0.1CV or 3µA whichever is greater (+20°C)
Capacitance Change Verse Temperature -55°C / +105°C	ΔC - 20% / ΔC + 50%
Soldering Heat Resistance (+240°C for 5 ~ 10 sec.)	ΔCapacitance: ±20% Leakage Current: 130% of initial value Dissipation Factor: less than value in specifications table.
Moisture Resistance (500 hours; 90~95% RH @40°C)	ΔCapacitance: +30% ~ -20% Leakage Current: less than value in specifications table. Dissipation Factor: less than value in specifications table.
Load Life Test (rated voltage @ 85°C) 1000 hours	ΔCapacitance: ±30% Leakage Current: less than value in specifications table. Dissipation Factor: 150% of value in specifications table.
Base Failure Rate	1% / 1000 hours at +85°C



FUTURE ELECTRONICS



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ELECTRONICS

Making the Difference