

NIC PRODUCT PROFILE

NPC Series

SMT Flat Chip Solid Polymer Aluminum Capacitor

Description:

SMT Flat chip solid polymer aluminum electrolytic capacitors [NPC Series] provide best in performance characteristics of ultra low ESR- characteristics (4.5m Ω) and High Ripple Current rating (4.0 Arms).

With a small "D" Case [7343] footprint and low profile options the NPC series is an ideal match for reduced size power designs requiring lowest ESR ratings and increased ripple current capabilities.

The expanding CV range of the NPC Series allows additional design opportunities replacing multiple standard products at once including liquid based aluminum capacitors, tantalum capacitors, and multilayer ceramic capacitors.

NPC Series Solid Polymer Benefits:

- ◇ Extremely Low ESR Values
- ◇ Increased frequency performance
- ◇ High Ripple Current Ratings
- ◇ High Working Voltages (Vdc)
- ◇ No DC Biased Conditions found in ceramic capacitors
- ◇ No wear out (increased lifetime) found in liquid electrolytics

NPC Characteristics:

Temperature Ranges : -55°C ~ +105°C

Capacitance Range : 22 μ F ~ 470 μ F

Voltage Range: 2Vdc ~ 10Vdc

ESR Values as low as 5.0m Ω

Rippe Current Ratings available up to 3,500mA

7343 Footprint ("D" Case) with heights as low as 1.1mm

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NPC Applications

- ◇ DC-DC Converters
- ◇ LED Drivers
- ◇ Point of Sale equipment
- ◇ GPS devices
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- ◇ Sensors & Controllers
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- ◇ Kemet "AO" Series
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- ◇ Sanyo TPE Series
- ◇ Conductive Polymer Tantalums
- ◇ High CV MLCCs



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