

**Low ESR - High Current Rated Solid Polymer Electrolyte SMT Aluminum Electrolytic Capacitors**

The NEW NSPV series of solid polymer electrolyte SMT aluminum electrolytic capacitors from NIC Components featuring High Ripple Current Ratings (up to 5.10Arms, 100KHz/+105degC) and low ESR (as low as 0.015ohm, 100KHz/+20degC). Designed for use in state-of-the-art lower voltage-higher current power management applications; such as voltage conditioning for micro-processors and graphics chips, DC-DC converters, VRM's, and switchers. NSPV series uses solid polymer electrolyte to

greatly reduce the ESR characteristic and increase the ripple current rating, as compared to standard liquid electrolyte construction.

Available in:

- Capacitance values from 22uF ~ 680uF
- Voltage ratings form 6.3 ~ 25VDC
- Case sizes (DxL) include 8mm x 7mm and 10mm x 10.5mm

Rated for operation at temperatures between -55 ~ +105°C and meets 1000 hour (@+105°C) load life test specifications.

The devices are supplied tape-and-reel packaged, for use with automated pick and placement PCB manufacturing.

**NIC Components Corp., 70 Maxess Road, Melville, NY 11747; (631) 396-7500; Fax: 631-396-7575; www.niccomp.com**

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**New Large Can Screw Terminal Aluminum Electrolytic Capacitors**

New NSTE and NSTEW series high CV large can screw terminal aluminum electrolytic capacitors are available in capacitance values up to 1.0 Farad and voltage ratings to

500VDC. General purpose; -40°C ~ +85°C (NSTE) and extended temperature; -40°C ~ +105°C (NSTEW) temperature ratings meet long life (3000 hour load life) guarantee at rated temperature and ripple current. Capacitance value range of 150uF ~ 1.0F and voltage ratings from 16VDC ~ 500VDC. Ripple current ratings to 37.5Arms (120Hz, +85°C) and 120Hz ESR as low as 0.0024ohm maximum are available. Ideal for high energy storage, power invertors, UPS and electric - hybrid vehicle applications. Custom CV and sizes available.

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**Lowest ESR SOLID POLYMER ELECTROLYTE Radial Leaded Aluminum Electrolytic Capacitors**

Featuring the highest ripple current ratings and lowest ESR characteristics of all electrolytic capacitor types, NIC's new NSPZR series of radial leaded solid polymer (electrolyte) aluminum electrolytic capacitors provides the best performance. NSPZR series uses solid polymer electrolyte to greatly reduce the ESR characteristic and increase the ripple current rating as compared to standard liquid electrolyte versions. NSPZR series features low ESR and impedance (as low as 0.008ohm) with ripple current ratings (up to 5.50Arms; +105°C/100KHz).

- Features:
- Capacitance values from 180uF ~ 820uF
  - Voltage ratings form 4 ~ 16VDC.
  - Case sizes (DxL) include 8mm x 11.5mm and 10mm x 12.5mm.
  - Supplied in environmentally friendly PVC-free and lead-free construction.

Ideally suited for lower voltage - high current power management applications, including power supplies, dc-dc converters, voltage regulators and switchers. Rated for operation at temperatures between -55 ~ +105°C and meets 2000 hour (@+105°C) load life test specifications. The devices are supplied in either bulk or tape-and-reel packaging, for use with automated insertion PCB manufacturing.

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**Radial Leaded Ultra-Low ESR Aluminum Electrolytic Capacitors**

Designed for state-of-the-art [ low voltage / high current ] voltage conditioning and power management applications [ power supplies, dc-dc converters, VRMs, etc. ], NIC Component Corp's new NRSK series of radial leaded (LD) aluminum electrolytic capacitors feature ultra-low ESR (Equivalent Series Resistance) and high ripple current ratings. NRSK series features low 100KHz ESR (as low as 0.012ohm) with high ripple current ratings (up to 2.80Arms; +105°C/100KHz) in low cost radial leaded configuration. Available in:

- Capacitance values from 470uF ~ 3300uF
- Voltage ratings from 6.3 ~ 16VDC.
- Case Diameters: 8mm & 10mm

Rated for operation at temperatures between -40 ~ +105°C with load life endurance (+105°C) rating of 2000 Hours. These devices are supplied in bulk or tape-and-reel packaging for use with automated insertion equipment.

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# Low ESR Capacitors



**New! ...NSPV - Solid Aluminum SMT V-Chip**

**Expanded!...NSP - Solid Aluminum SMT Flat Chip**

**Lead-Free Products**

**PVC Free styles**

Designed to meet the needs of new and next generation low voltage-high current power management designs, NIC Components Corp. broad range of Low ESR Capacitors has the offering and selection you need!

- SOLID Aluminum Electrolytic Capacitors (Radial, SMT V-Chip, SMT Flat Chip)
- HYBRID Electrolyte Aluminum Electrolytic Capacitors (Radial, SMT V-Chip)
- LIQUID Electrolyte Aluminum Electrolytic Capacitors (Radial, SMT V-Chip)
- Polymer Cathode Tantalum Electrolytic Capacitors (SMT Flat Chip)
- MnO2 Cathode Low ESR Tantalum Electrolytic Capacitors (SMT Flat Chip)
- High Capacitance [up to 100mF] X5R / X7R Ceramic Chip Capacitors (MLCCs)



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