

**EXPANDED**

## NSPE-x Series - FIVE Product Series Hybrid Construction Low ESR - High RCR SMT Aluminum Electrolytic Capacitors



[www.NICcomp.com/NSPE](http://www.NICcomp.com/NSPE)

### FEATURES:

- Wide Voltage Range: **6.3VDC - 100VDC**
- Ultra-Low ESR ( $\geq 0.015\Omega$ )
- High Ripple Current Rating RCR to  $\leq 3.9\text{Arms}$  (+105°C)
- Extended Temperatures to **+125°C & +135°C**
- Lifetime Ratings: **5000, 7000 & 10,000 hours** (+105°C)
- Wide Capacitance Range: **10uF-1000uF**
- Suitable for automotive applications [ TS-16949 site ]

Contact us for a quote today:  
[www.NICcomp.com/contact](http://www.NICcomp.com/contact)

**FREE NSPE** samples  
in **NIC QUICK KIT**



[www.niccomp.com/quickkit](http://www.niccomp.com/quickkit)

#### QUICK KIT ITEMS

- 10uF 50V 80mΩ 840mA
- 22uF 63V 40mΩ 1560mA
- 33uF 63V 30mΩ 1260mA
- 33uF 16V 54mΩ 1130mA
- 47uF 35V 60mΩ 1300mA
- 47uF 25V 60mΩ 1270mA
- 100uF 16V 22mΩ 2290mA
- 100uF 35V 30mΩ 1260mA
- 100uF 16V 19mΩ 1850mA
- 100uF 35V 30mΩ 1010mA
- 150uF 16V 20mΩ 2920mA
- 150uF 35V 23mΩ 2470mA
- 220uF 10V 18mΩ 1680mA
- 220uF 6.3V 16mΩ 3150mA
- 330uF 10V 18mΩ 2800mA
- 470uF 6.3V 16mΩ 3150mA

## Featured NEW PRODUCT



**NSPE-x Series**  
Featured New Product  
"Electronics Products", November 2009

**NEW PRODUCTS**

**Hybrid capacitors offer low ESR, high Vdc**  
Designated the NSPE series, a family of hybrid-construction aluminum electrolytic capacitors is available in voltage ratings of 35 V, 50 V and 63 Vdc, with an operating temperature range of -55° to 125°C. The capacitors combine the low-ESR, low-temperature stability and high-current rating of solid polymer electrolyte capacitors with the advantages of liquid electrolyte construction.

Load life ratings are to 10,000 hours @ 105°C, with capacitance to 1,000 uF and 260° and 250°C rated compatible with Pb-free (SAC Alloy) reflow soldering process. (\$0.16 to \$0.68 each — available now.)

**NIC Components Melville, NY**  
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**Featured Product**

**Electronic Products**

November 2009



### Replace Solid "OSCON" Capacitors

Use **NPSE-x** Series to Cross and Replace SMT Solid Polymer Types

#### Competition Series

- Nichicon: CF, CJ, CG
- UCC: PXS, PXF, PXE, PXA, PXH
- Sanyo: OS-CON (SVP, SVGJ)

**Electronic PRODUCTS**

Series	Temp Range	Life Rate @ Max Temp	Voltage Rating	Cap Range	100KHz ESR	100Hz RCR @ Max Temp	Reflow Limit	Auto
<a href="#">NSPE-S</a>	-55°C ~ +105°C	3K & 5KHrs	6.3 ~ 16VDC	10 ~ 1000uF	$\geq 0.015\Omega$	$\leq 3.89\text{A}$	+250°C	Option
<a href="#">NSPE-H</a>	-55°C ~ +105°C	5K ~ 10KHrs	25 ~ 100VDC	2.7 ~ 270uF	$\geq 0.022\Omega$	$\leq 2.53\text{A}$	<b>+260°C</b>	Standard
<a href="#">NSPE-T</a>	-55°C ~ +125°C	1.5 ~ 3KHrs	25 ~ 100VDC	3.9 ~ 270uF	$\geq 0.022\Omega$	$\leq 1.52\text{A}$	<b>+260°C</b>	Standard
<a href="#">NSPE-U</a>	-55°C ~ +125°C	2KHrs	6.3 ~ 16VDC	22 ~ 560uF	$\geq 0.016\Omega$	$\leq 2.19\text{A}$	+250°C	Option
<a href="#">NSPE-Y</a>	-55°C ~ +135°C	2KHrs	6.3 ~ 16VDC	22 ~ 270uF	$\geq 0.022\Omega$	$\leq 1.22\text{A}$	<b>+260°C</b>	Standard

**NIC** <sup>®</sup> **NIC Components Corp.**