

PRODUCT PROFILE & CROSS-REFERENCE

NIC Technical Support: tpmg@niccomp.com

PDF Specification: <https://www.niccomp.com/products/catalog/nspe-ut.pdf>

Product Category:

Passives; Capacitor; Aluminum Electrolytic; SMT; **Hybrid**; AEC-Q200; **+150°C**

NSPE-UT series

+150°C Hybrid Construction SMT Aluminum Electrolytic Capacitors



NIC Components Corp. is pleased to announce the release of the NSPE-UT series of surface mount SMT aluminum electrolytic capacitors featuring +150°C operating rating and extended lifetimes at reduced operating temperatures (i.e., >22,000 hours at +125°C & >10 years at +105°C) for 8mm & 10mm case sizes.

NSPE-UT series meets AEC-Q200, and is available in six sizes; 6.3x8 to 10x16.5 (∅DxH) covering capacitance values from 47uF to 470uF in voltage ratings of 35VDC, and 63VDC.

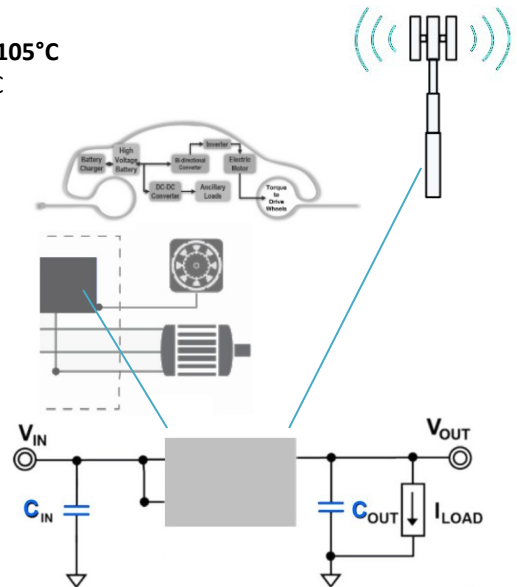
Hybrid construction (polymer and liquid electrolyte) provides superior performance over a wide temperature range of -40°C to +150°C supporting 5G cellular remote radio head (RRH), 48VDC automotive, 57V IIoT, and -48VDC / -60VDC power for fixed and mobile telecommunication and datacom (ICT) network equipment. The SMT construction is halogen-free, RoHS & REACH compliant, and compatible with +260°C peak Pb-free reflow soldering processes. Evaluation samples are available upon request. Please contact NIC today to review your requirements.

Features:

- High Reliability - Long Life: >22K hours @ +125°C & >10 yrs @ +105°C
- Ultra Low ESR & High Ripple Current ($\leq 5.7A$) At 100KHz / +125°C
- Auto Grade: meets **AEC-Q200**
- 6.3x8 to 10x16.5mm Case Sizes
- Reflow Soldering Rated To +260°C
- Available With Wide Anti-Vibration Terminations

Applications:

- Enterprise-Level
- Cellular – Network Infrastructure
- 48V Automotive: EPS, Pumps, e-Compressors, Heaters, etc.
- x-EV Power Train Systems
- 48VDC / -60VDC Telecom - Datacom (ICT) Equipment
- DC-DC Power Circuits
- Power Control & Point of Load Regulators



Cross-Reference

NIC	Nichicon	Nippon Chemi-Con United Chemi-Con	Panasonic	Rubycon
NSPE-UT	GYP, PCZ	HHX	ZF - EEHZF	PLV

Co-Sell Products:

- High Current **Power Inductors**: NPIM_PE / _PA NPIM_S
- High Current Sensing **Resistors**: NCSA NCST-C

NIC Components Corp.

ISO 9001:2015 REGISTERED