

PRODUCT PROFILE & CROSS-REFERENCE

NIC Technical Support: tpmg@niccomp.com

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

Product Category:

Passives; Capacitor; Aluminum Electrolytic; SMT; Hybrid; +125°C

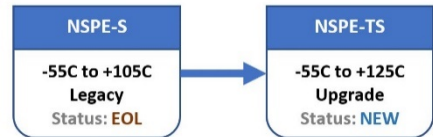
NSPE-TS series

Hybrid Construction SMT Aluminum Electrolytic Capacitors



NIC Components Corp. is pleased to announce the release of the **NSPE-TS** product series of surface mount SMT aluminum electrolytic capacitors utilizing advanced **hybrid construction, combining conductive polymer with liquid electrolyte**, resulting in low ESR, high ripple current ratings (up to 3.9Arms), self-healing characteristics, and stable performance over -55°C to +125°C operating temperature range. NSPE-TS series supports downsized circuit designs using smaller or fewer components, covers **100uF to 1000uF capacitance range in 6.3vdc and 10Vdc ratings**, and is an alternate - upgrade to the **legacy NSPE-S** product series (**NRND** → **EOL**).

The NSPE-TS series is load life rated at +125°C (2000 hours) and +105°C (5000 hours) and supports low voltage high current power applications requiring **stability at low operating temperatures**, such as automotive, industrial controls, enterprise, networking, and communication infrastructure equipment. **NSPE-TS** meets the requirements of **AEC-Q200**, including **extended bias humidity testing; +85°C, 85% RH testing for up to 2000 hours**



Features:

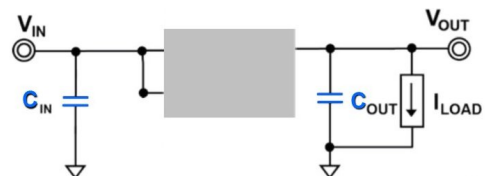
- Ultra-Low ESR and High Ripple Current Performance
- Downsize your circuit (smaller or fewer components)
- Advantages: Self-healing and No Voltage Derating
- Ultra-stable over Temperature & Long lifetime
- Meets the requirements of AEC-Q200
- Strong Moisture Resistance
- Available with Wide Anti-Vibration Terminations

Applications:

- DC-DC Converters
- Point of Load Regulators
- High-Reliability
- Enterprise-Level
- Cellular Infrastructure
- Industrial Controls
- RF Communications

Co-Sell Products:

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



Cross-Reference

NIC	AVX	KEMET	Nichicon	Panasonic	UCC
NSPE-TS	AHC	A780	CF, CJ, CG	ZC & ZK	HXE, PXS, PXF, PXE, PXA, PXH

NIC Components Corp.

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