

# NIC PRODUCT PROFILE

**NAYT series** Extended Temperature +135°C  
& Long Lifetime SMT Aluminum Electrolytic Capacitors



[www.niccomp.com/catalog/nayt.pdf](http://www.niccomp.com/catalog/nayt.pdf)  
[www.niccomp.com/series/NAYT](http://www.niccomp.com/series/NAYT)

NIC Components is pleased to announce the addition of NAYT series of extended temperature +135°C rated automotive grade long lifetime capacitors to its expanded family of surface mount (SMT) aluminum electrolytic capacitors. NAYT series meets automotive grade AEC-Q200 test requirements and features wide operating temperature range of -40°C to +135°C, with 2000 hours load life rating at +135°C (equivalent to 16,000 hours at +105°C and 64,000 hours at +85°C). +135°C rating is ideal for use as surface mount replacement for radial leaded (LDD) version capacitors when used in long lifetime applications; such as automobile systems, and other high temperature applications. Capacitance value range of the NAYT series covers 47uF to 1000uF in ±20% (M) tolerance, with voltage ratings from 16VDC to 50VDC in 8x10.8mm, 10x10.8mm and 12.5x14mm (DøxH) case sizes. Wide terminal option ('W') is offered for use in high vibration applications, such as automotive power train, drive train and industrial controls. Circuit applications for NAYT series include use as input and output capacitors on DC-DC switchers, point of load regulators, load stepping, bulk storage. Additional uses in ripple noise filtering applications in servers, routers, embedded computing, lighting displays and cellular base stations. NAYT series is RoHS complaint, and Pb-free SAC Alloy soldering compatibility at +245°C to +260°C reflow soldering temperatures. Unit pricing for NAYT series ranges from \$0.15 to \$0.39 in production volumes.

### Co-sell with NIC Products:

- NPIM\_A Automotive Grade Power Inductors
- NMC-A Automotive Grade MLCCs NPO / X7R
- NRCA & NTRA – Automotive Grade Chip Resistors
- NCB\_Y & NCB-H\_Y - Automotive Grade, EMI suppression; SMT Ferrite Chip Beads

### Circuit Applications:

- Input - Output capacitors
- DC-DC regulators
- Ripple (noise) Filtering
- Bulk Storage
- Load Stepping

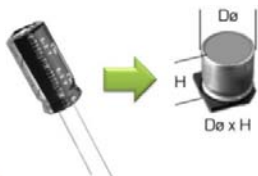
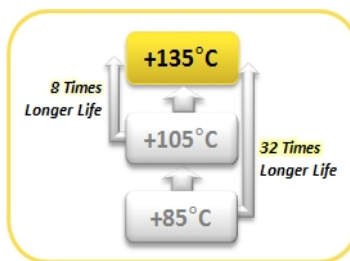
### End Products

- Automotive
- Power train
- Drive train
- Industrial Controls
- Power Supplies
- Lighting & Displays
- Servers & Routers
- HD Graphics
- Base Stations



### FEATURES & ADVANTAGES:

- -40°C ~ +135°C Operating Range
- 47uF ~ 1000uF / 16V ~ 50VDC
- Automotive Grade AEC-Q200
- Extended Lifetime
- 2000 hrs @ +135°C
- 16,000 hrs @ +105°C, 64,000 hrs @ +85°C
- 8X10.8 / 10X10.8 / 12.5X14 sizes
- 'W' Wide terminal option for high vibration applications



### SMT Replacement for Radial LDD

- ELNA: RKB \_\_\_
- Nichicon: UBW \_\_\_
- NCC & UCC: EGPD\_ / EGVD\_ / EGXH\_
- Panasonic: EEUTP \_\_\_

→ Cross the below competitor SMT PNs

Competitor	Series
ELNA	RVX ___
Nichicon	UCX ___
Vishay BC comp	146 CTI (MAL2146...)



Cross & Replacement Support ... [tpmg@niccomp.com](mailto:tpmg@niccomp.com)