

NIC PRODUCT PROFILE

NTRA series

Automotive Grade Thin Film Chip Resistors



www.niccomp.com/catalog/ntra.pdf
www.niccomp.com/series/NTRA

NIC Components' newly released, NTRA series, of automotive grade thin film chip resistors address **precision resistor requirements** of automotive applications. The NTRA series products are **AEC Q-200 qualified** and supported from **TS-16494 certified component production site**. NTRA series features the **stability over temperature, low noise and precise tolerances** of thin film construction, in small low profile flat chip packages.

Component sizes include EIA 0402, 0603, 0805, 1206, 1210, 2010 and 2512 case sizes, with power ratings cover 0.063 watt ~ 0.50 watt. **Optional higher power and voltage ratings are supported on 0603, 0805, 1206, 1210 and 2010 case sizes.** Operating temperature range of -55°C to +155°C with power rating derated above +70°C. Voltage ratings cover 25V ~ 200V. Resistance values from 10 Ohm to 10 Meg-Ohm are available in **E-24, E-96 and E192** resistance values. Resistance value tolerances cover **precision tolerances** of ±0.05%, ±0.1%, ±0.25%, ±0.5% and ±1% with ultra-stable temperature coefficient of resistance values of **±25ppm/°C & ±50ppm/°C.**

Supplied on carrier tape for automated placement and compatible with Pb-free reflow soldering. **Typical unit pricing ranges from \$0.008 to \$0.36 USD** each, when purchased in production volumes. **Free samples** are supplied for design and evaluation purposes.

NTRA FEATURES:

- AEC-Q200 qualified
- TS-16494 certified production site
- Low Noise Construction
- Precision Tolerance
- Ultra-Stable TCR
- EIA 0402 ~ 2512 case sizes
- 1/16W ~ 1/2W ratings
- 25V ~ 200V ratings

 Thin Film



Co-sell with NIC **Automotive Grade Product Series** www.niccomp.com/auto

- **NMA** – NPO, X7R Ceramic Caps MLCCs
- **NRCA** – Thick Film Chip Resistors
- **NCB_Y & NBC-H_Y** - Ferrite Chip Beads
- **NPIM_A** - SMT Power Inductors
- **"YF" Suffix** – Aluminum Ecaps

Applications:

- *Automotive*
- *Test & Instrumentation*
- *Harsh Environments*
- *High Reliability*
- *Mission Critical*

→ Cross & Replace competitor series

Competitor	Series
KOA	RN73H
PANASONIC	ERA
SUSUMU	RG/RGH
VISHAY	MCT/TNP/PAT
YAGEO	AC

