

NIC PRODUCT PROFILE

NCST Series

SMT Current Sensing Resistors

DESCRIPTION:

Low ohmic, precision current sensing resistors. NCST uses low cost thick film construction supplied on tape and reel for automatic pick and placement. Precision resistance values from 1milli-Ohm to 10Ohm are available in tolerance from $\pm 1\%$ to $\pm 5\%$. TCRs cover range from $\pm 100\text{PPM}$ to $\pm 600\text{PPM}$.

CHARACTERISTICS:

Temperature Range : $-55^{\circ}\text{C} \sim +155^{\circ}\text{C}$

Resistance : 1.0 milli-Ohm \sim 1.0 Ohm

Resistance Tolerance : $\pm 1\%$, $\pm 2\%$, $\pm 5\%$

TCR: $\pm 100\text{PPM} \sim \pm 600\text{PPM}$

Power Ratings: 1/16 Watt \sim 3 Watt

Sizes: 0402 \sim 2512

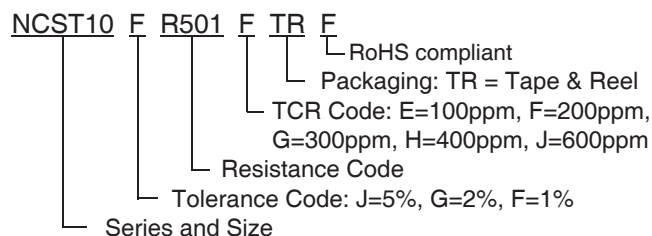
TRENDS:

Industry wide trend towards low voltage - high current circuits, has fueled demand for current sensing SMT resistors in power management and control circuit applications. In addition reduced size handheld and portable products are also increasing demand for ultra-small current sensing resistors; including package sizes down to 0402.

APPLICATIONS:

- Current Sensing
- POL Converters
- LDO Regulators
- Chargers / Adapters
- Battery Powered Devices
- Circuit Protection
- Motor Controllers
- VRMs

PART NUMBERING SYSTEM:



Competition	Replace
KOA	UR732, SR731, TLR
Panasonic	ERJ-M1WT
Vishay	SWR, WSL
Yageo	RL
Welwyn	LRC, LRF
IRC	CSS

[Visit www.niccomp.com for FULL Cross Reference List]

Key Parameters - Substitutes & Selling Tips

+ NCST ADVANTAGES

- Stability over Wide Temperatures
- Low Resistance Values
- 3 Watt Power Capabilities
- Precision Tolerances $\pm 1\%$, $\pm 2\%$, $\pm 5\%$
- Wide Size selection
...0402 \sim 2512

[Visit www.niccomp.com For Performance Data]



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NIC Specification Data Sheet @
<http://www.niccomp.com/catalog/ncst.pdf>