

# PRODUCT PROFILE & CROSS-REFERENCE



PDF Specification:

[www.niccomp.com/products/catalog/nlsa.pdf](http://www.niccomp.com/products/catalog/nlsa.pdf)

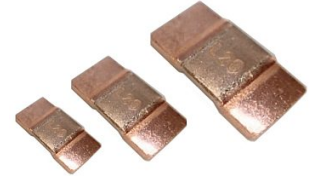
## Product Category:

Passives; Resistor - Shunt; Current Sensing; SMT; High Current

## NCSA series

### SMT Current Sensing Shunt Resistors Auto-Grade

NIC Components Corp. is pleased to announce the release of the NCSA product series of automotive-grade (AEC-Q200 qualified) current sensing shunt resistors featuring high current ratings in surface mount metal alloy construction.



The NCSA series covers resistance values from 0.1mΩ to 2mΩ in ±1% (F), ±2% (G), and ±5% (J) tolerances and is rated for use in high current applications, from 70A to 380A with stable TCRs of ±50PPM to ±200PPM/°C. The NCSA series is supported in three low profile SMT case sizes; 2512, 3920 and 5930 and has an operating temperature range of -55°C to +170°C with power derating above +70°C

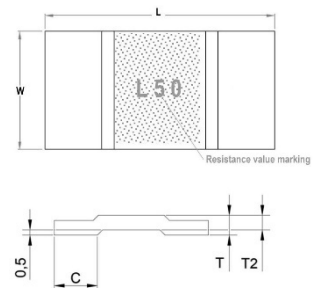
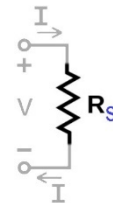
NCSA series is Halogen-Free, RoHS & REACH compliant and compatible with Pb-free reflow soldering processes. Supplied on tape and reel packaging for automated pick and placement. Evaluation samples are available upon request. Please contact NIC today to review your requirements.

#### Features:

- High Current 70A to 300A+
- 0.1mΩ to 2mΩ resistance values
- Meets AEC-Q200
- Wide Temperature Range:
- -55°C to +170°C

#### Circuit Applications:

- Current Sensing
- Power Control
- Power Regulators
- Automotive Systems
- Battery Charging Controls



#### Co-Sell Products:

High Current **Power Inductors**: NPIM\_PE & NPIM\_PA NPIM\_S

Low ESR & **High Current Capacitors**: NSPE-TJ & NSPE-TS NAZT & NRSJ



Cross-Reference

NIC	Bourns	Cyntec	Kamaya	KOA	Ohmite	Rohm	TT	Vishay	Yageo
NCSA	VSML	CSS2H	SMP	PSL2: 2512 PSJ2: 3920	CRS EBW	PSR	LRMA:5930	WSLF:2512 WSL:3920 WSL:5930	PU4



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