

NIC PRODUCT PROFILE

NCLP series

Metal Strip Current Sensing Chip Resistors



www.niccomp.com/catalog/nclp.pdf
www.niccomp.com/series/NCLP

NIC Components is pleased to announce the addition of NCLP series metal strip current sensing resistors to its expanded offering of SMT resistive products. NCLP series utilizes multiple metal constructions (*Ni-Cr*, *Mn-Cu* & *Fe-Al-Cr*) with low thermal EMF performance and stable TCR of +75PPM/°C. Offered in resistance value range of 1mΩ ~ 500mΩ (*0.001 ~ 0.500 Ohm*) in 1%, 2% and 5% resistance tolerances. Power ratings of 1W, 1.5W, 2W and 3W are supported in EIA standard 2512 case size.

NCLP series covers high current requirements (up to 55A) over -55°C ~ +170°C operating temperature range (*power derated above +70°C*). Ideal for use in low voltage high current circuits; including DC-DC, POL, voltage regulators and power converter applications. RoHS and Reach complaint, NCLP series is supplied on tape and reel packaging for automated pick and placement and is compatible with Pb-Free reflow soldering. Typical unit pricing ranges from \$0.06 to \$0.11 USD each, when purchased in production volumes.

➔ Contact NIC today to review your requirements, and request free samples for design and evaluation purposes.

FEATURES

- Ratings to 3W (up to 55A)
- Stable TCR: +75PPM/°C
- Resistance range: 1mΩ ~ 500mΩ
- Precision ±1%, ±2%, ±5% tolerances
- EIA 2512 case size
- Low thermal EMF

End Products:

- Power Supplies
- Commercial
- Industrial
- Telecomm
- Green Power
- Test & Instrumentation



Co-sell with NIC Products:



NPIM_P – SMT Power Inductors
 Metal Composite Shielded;
 High Current - Low Loss



NMC – High Cap Series MLCCs
 High Capacitance
 X7R, X6S, X5R, Y5V

Circuit Applications:

- Current Sensing
- Load Balancing
- Power Management
- Point of Load Regulators
- DC-DC Convertors
- Op Amps & Amplifiers
- Fuse Monitoring
- Supply Voltage Monitoring

➔ Cross the below competitor PNs

| Competitor | Series PNs (construction) |
|------------|--------------------------------|
| KOA | TLR3A, TLR3AW (Metal Plate) |
| PANASONIC | ERJL1W (Thick Film) |
| SEI | CSRF2512 (Foil on Ceramic) |
| VISHAY | WSL2512 (Metal Alloy) |

