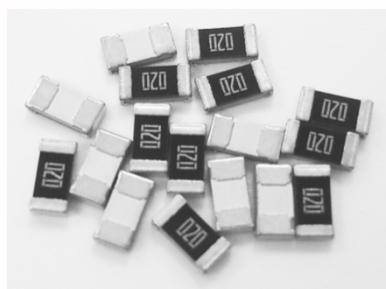


NIC PRODUCT PROFILE

NCLS series

Metal Foil on Ceramic Current Sensing Chip Resistors



www.niccomp.com/catalog/ncls.pdf

www.niccomp.com/series/NCLS

NIC Components is pleased to announce the expansion of NCLS series of **low cost NCLS series of metal foil on ceramic construction current sensing resistors**. NCLS series are supported in 0603, 0805, 1206 and 2512 case sizes, as well as reverse terminal 0508 & 0612 case sizes, with stable TCR of $\pm 50\text{PPM}$ & $\pm 100\text{PPM}/^\circ\text{C}$ over $-55^\circ\text{C} \sim +155^\circ\text{C}$ operating temperature range (power derated above $+70^\circ\text{C}$). NCLS series is supported in resistance value range of $5\text{m}\Omega$ to $40\text{m}\Omega$ (0.005 to 0.040Ω) in $\pm 1\%$, $\pm 2\%$ and $\pm 5\%$ resistance tolerances with power ratings of 0.50W , 0.75W , 1.0W and 2.0W

NCLS series is ideal for use in high density low voltage high current circuits; including DC-DC, POL, voltage regulators and power converter applications. RoHS and REACH compliant, NCLS series is supplied on tape and reel packaging, for automated pick and placement and are compatible with Pb-Free reflow soldering.

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

FEATURES

- Standard sizes: 0603, 0805, 1206 and 2512
- Reverse terminal sizes: 0508 and 0612
- Low Profile; $0.60 \sim 0.90\text{mm}$ height
- Lower surface temperature
- High pulsed power capability (*No trimming performed*)
- **Lower cost than metal strip construction**
- $0.50\text{W} \sim 2\text{W}$ (Current rating; $7\text{A} \sim 25.8\text{A}$)
- Stable TCR: $\pm 50\text{PPM}/^\circ\text{C}$
- Resistance range: $5\text{m}\Omega \sim 40\text{m}\Omega$
- Precision $\pm 1\%$, $\pm 2\%$, $\pm 5\%$ tolerances

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

Circuit Applications:

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

➔ Cross – replace the below competitor PNs

Competitor	Series PNs (construction)
Cyntec	RLxxxx (Foil on Ceramic)
KOA	TLR__ (1,2,H,Z) (Metal Plate)
SEI	CSRF__ (Foil on Ceramic)
Susumu	KRLxxxx (Foil on Ceramic)
Vishay	WSL__ (Metal Alloy)



NIC Components Corp.



Cross & Replacement Support ... tpmg@niccomp.com