

NIC PRODUCT PROFILE

NRCV series

High Voltage Thick Film Chip Resistors



www.niccomp.com/catalog/nrcv.pdf
www.niccomp.com/series/NRCV

NIC Components is pleased to announce the addition of NRCV series of high voltage rated thick film chip resistors, to its expanded resistive products offerings. NRCV series is offered in EIA standard 0402, 0603, 0805, 1206, 2010 & 2512 case sizes; with voltage ratings from 100V to 3000V (standard voltage ratings are 50V to 250V). Resistance values supported cover range from 10Ω to 100MegΩ in ±1% & ±5% resistance value tolerances in standard E24 & E96 resistance values. With operating temperature range of -55°C ~ +155°C (derated above +70°C), the high voltage rating of NRCV series makes them ideally suited for use in high voltage power supplies, test & instrumentation, voltage monitoring, current limiting, load balancing and voltage dividers applications. RoHS compliant and halogen-free, the NRCV series are supplied packaged on tape and reel for automated placement into PCB assemblies. Typical unit pricing for NRCV series is \$0.06 to \$0.29 each, with standard lead times from 8 to 10 weeks.

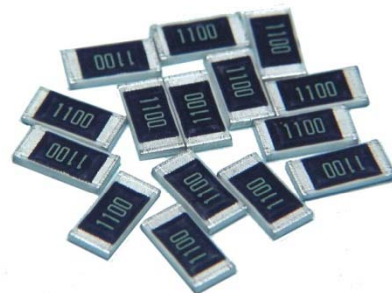
➔ Contact NIC today to review your requirements, and request free samples for design and evaluation purposes.

FEATURES

- 2000V / 3000V ratings (10X upgrade from 200V / 250V standard ratings in 2010 / 2512 sizes)
- Small package sizes and low profile
- Low unit cost
- Thick Film On Alumina Substrate, RuO₂/Ag Resistive layer
- Glass & Epoxy Overcoat

Based on voltage rating formula Working Voltage = $\sqrt{\text{Power rating (Watts)} \times \text{Resistance (Ohms)}}$ the NRCV parts will have a higher voltage rating than the standard NRC parts in resistance values above (see table right):

EIA Size	Resistance Value
0402	39.2K
0603	24.9K
0805	178K
1206	158K
2010	78.7K
2512	61.9K



Co-sell with NIC Products:



NMC-H – High Voltage MLCCs
NPO & X7R to 5000V



NCD – High Voltage Disc Capacitors
Multiple TCCs / 1KV ~ 5KV ratings

Applications & End Products:

- Voltage monitoring
- High voltage power supplies
- Test & measurement
- Current limiting
- Load balancing
- Voltage dividers
- Industrial products

➔ Cross the below competitor PNs

KOA	HV73
Ohmcraft	HVC
Ohmite	HVF Macro
Nicrom	HVC
SEI	HVC
Vishay	RCV
Welwyn	HVC
Yageo	RV



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