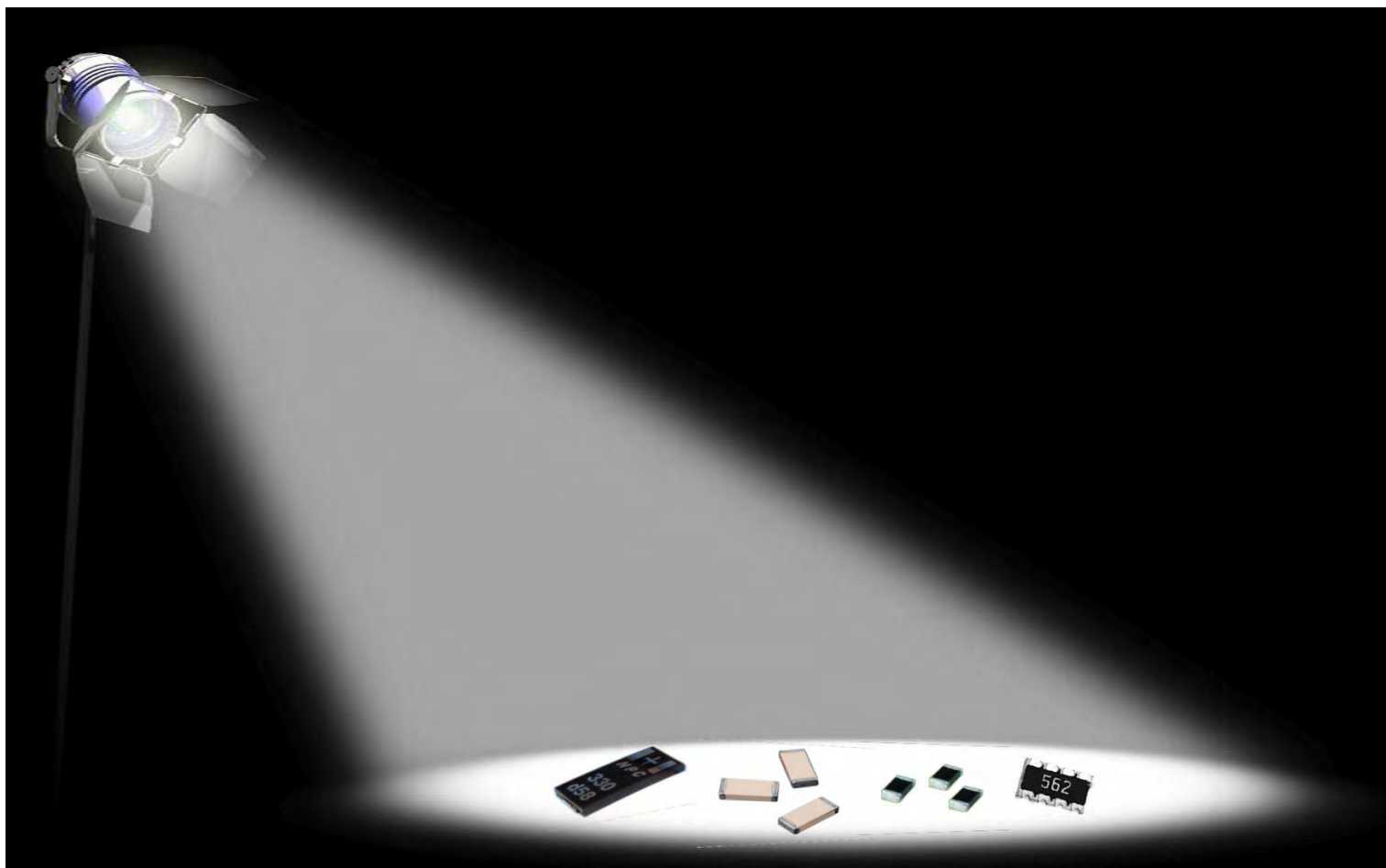


Component Spotlight



NIC[®] **NIC Components Corp.**

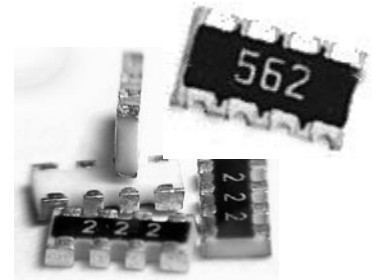
www.niccomp.com | www.lowESR.com | www.RFpassives.com | www.SMTmagnetics.com

PN: **NRSNxxxxxxxTRF**

SMT Thick Film Resistor Arrays

FEATURES:

- Super Miniature Size & Low Profile
- High Density Packaging Offers Significant Space Savings
- Lower PCB Fabrication Costs With Fewer Placements
[2, 4 or 8 Resistors In Single Package]
- **Standard Footprints Make Conversions Easy**
- RoHS Compliant & Halogen-Free Construction
- Reflow Soldering Compatible



www.NICcomp.com/NRSN

NEW Reduced Sizes:
www.NICcomp.com/NRSNE

LOW PRICING:

NIC has **very aggressive pricing** on our **NRSN series** of thick film resistor arrays.

- Contact us for a quote today: www.NICcomp.com/contact

TREND:

Growth in resistor array requirements driven by increased density in PCB designs, replacing many individual resistors with resistor arrays.

COMPETITION:

Cross & Replace (**Drop-in Replacements**)

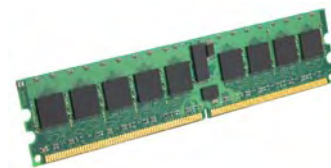
- Rohm **MNR** series
- KOA **CN** series
- Panasonic **EXB** series
- Bourns **CAY** and **CAT** series,
- Dale **CRA** Series
- Yageo **YC** series



Supplied taped on 4K,
5K & 10Kpc 7" Reels

APPLICATIONS:

- Pull-up Pull-Down Resistor Applications
- Terminator Resistor Applications
- Memory Modules
- Controls & Displays for Mobile Technology
- Handheld, PDE, GPS, Notebook PC, Peripherals
- Point of Sale equipment, Electronic Kiosk,
- Wireless Access Points & Gateways,
- Sensors & Controllers, Security & Alarm



NIC [®] **NIC Components Corp.**

NIC PRODUCT SPOTLIGHT

PN: **NCB-H0402PxxxTRxxxF**



0402 SIZE - HIGH CURRENT FERRITE CHIP BEADS

NIC PART NUMBER	100MHz Impedance (ohm)	DC Resistance (ohm)	DC Current (mA)
NCB-H0402P100TR200F	10	0.1	2000
NCB-H0402P300TR200F	30	0.1	2000
NCB-H0402P600TR200F	60	0.1	2000
NCB-H0402P800TR200F	80	0.1	2000
NCB-H0402P900TR200F	90	0.1	2000
NCB-H0402P101TR200F	100	0.1	2000
NCB-H0402P121TR200F *	120	0.1	2000
NCB-H0402P221TR150F *	220	0.15	1500
NCB-H0402P301TR150F	300	0.15	1500

ADVANTAGES:

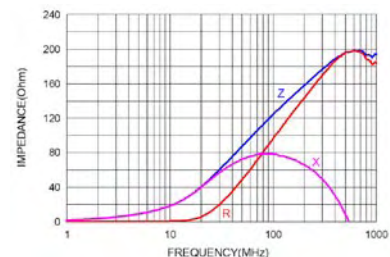
- ➔ High current rated (2A) in ultraminiature size (1.0mm X 0.5mm)
- ➔ **Low cost replacement - alternate to Murata BLM15 "EG"**
 - * NCB-H0402P121TR200F replaces BLM15EG121SN1
 - * NCB-H0402P221TR150F replaces BLM15EG221SN1
- ➔ Wide impedance range (10 ohm - 330 ohm @ 100MHz)
- ➔ Reduced PCB space - Ideal for high density layouts

Part Numbers		100MHz Impedance (ohm)	DC Current (mA)	DC Resistance (ohm)	Operating Temperature Range
Murata	BLM15EG121SN1	120	1500	0.095	-55 to +125
NIC	NCB-H0402P121TR200F	120	2000 *	0.100	-40 to +125
Murata	BLM15EG221SN1	220	700	0.280	-55 to +125
NIC	NCB-H0402P221TR150F	220	1500 *	0.150 *	-40 to +125

* NIC has better DCI & DCR specifications and **lower cost** than comparable Murata PN

APPLICATIONS:

- ➔ EMI RF noise suppression on DC supply lines
- ➔ Portable & Handheld products
- ➔ Point of Sale equipment
- ➔ GPS devices
- ➔ Wireless Access Points & Gateways
- ➔ Sensors & Controllers
- ➔ Security & Alarm



Impedance Over Frequency Curves on www.NICcomp.com

NIC [®] **NIC Components Corp.**

PN: **NMC0402X5R475M6.3TRPF**

CERAMIC CHIP CAPACITOR - MLCC



0402 size (1.0mm X 0.5mm x 0.65mm height)

4.7uF ±20% (M)

6.3V Rating (upgrade from 4V rating)

X5R (+/-15% capacitance change over -55°C - +85°C)

ADVANTAGES:

- Reduced PCB space
- High capacitance (4.7uF) in small - low profile package
- **Voltage 6.3V rating** (upgrade from 4V rating)

APPLICATIONS:

- **Power control** (use with **Qualcomm, Maxim, NXP, Quantance**, etc)
- **Power management**
- **Portable devices**

Used in *HTC - Touch Diamond & RIM - Blackberry* type products



FREE NMC0402X5R475M6.3TRPF samples
in **NIC QUICK KIT**



www.niccomp.com/quickkit

nic® **NIC Components Corp.**

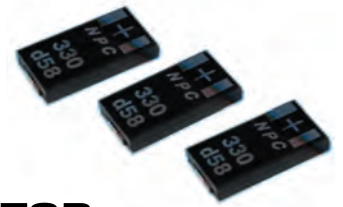
PN: **NPC181M2D6ZTRF & ZATRF**

SOLID ALUMINUM ELECTROLYTIC CAPACITOR

Low ESR (0.009 ohm / 100KHz)

180uF ±20% (M)

2VDC Rating



ADVANTAGES:

- **Low ESR** (0.009 ohm / 100KHz)
- **High Stability with Long Life** (No capacitance loss due to voltage nor time)
- **High Ripple Current** (3Arms over +25°C - +105°C / 100KHz)
- **+260°C Reflow Rated (2X)**

APPLICATIONS: (use with **Intel XEON dual and quad core work station 5000X chip sets**)

- **Motherboards**
- **Servers**
- **Graphics & CAD Workstations**
- **High End Graphics and HD Video**



XEON is trademark and property of Intel USA



FREE NPC181M2D6 samples
in **NIC QUICK KIT**



www.niccomp.com/quickkit

nc **NIC Components Corp.**

PN: NPC101M2D1UATRF

SOLID ALUMINUM ELECTROLYTIC CAPACITOR

Low ESR (0.005 ohm / 100KHz)

100uF ±20% (M)

2VDC Rating (0.85V - 1.60VDC core voltage applications)

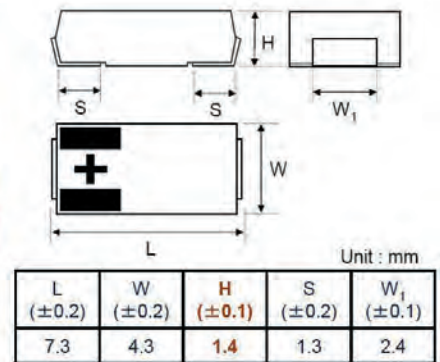
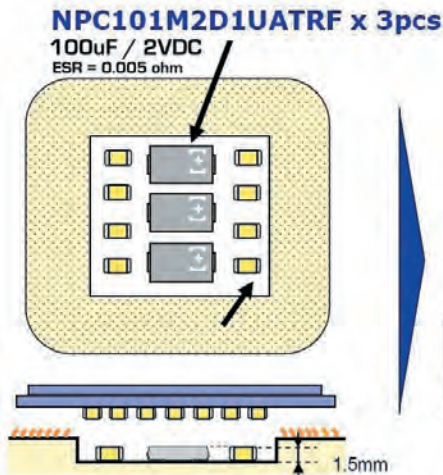


ADVANTAGES:

- **Low Profile for CPU Socket "T" LGA775** (see image below)
- **High Stability with Long Life** (No capacitance loss due to voltage or time)
- **High Ripple Current** (3Arms over +25°C - +105°C)

APPLICATIONS: (use with Intel, nVidia, VIA, SiS, ATi, etc)

- Motherboards
- Servers
- Workstations
- HD Video



FREE NPC101M2D1UATRF samples
in **NIC QUICK KIT**



www.niccomp.com/quickkit



NIC Components Corp.

NIC PRODUCT SPOTLIGHT

⊗ Replace AVX - LDD Ceramic Disc Capacitors with NIC Components Corp.

AVX	NIC Components	Temperature Coefficient Notes
5A ...	NCD ... NPO	Same
5B ...	N/A	N100 PPM
5C ...	NCD ... N150	Same
5D ...	N/A	N220
5E ...	N/A	N330
5F...	N/A	N470
5G ...	NCD ... N750	Same
5H ...	NCD ... N1500	Same
5I...	N/A	N2200
5J... (N4700)	NCD ... N3300	Offer N3300 I/S N4700
5K ...	NCD ... SL	Same
5M ... (Y5E)	NCD ... Y5F	Offer Y5F I/S Y5E
5N ...	NCD ... Y5F	Same
5O ...	NCD ... Y5P	Same
5P ...	NCD ... Y5R	Same
5Q ...	NCD ... Y5T	Same
5S ... (Y5U)	NCD ... Y5T	Offer Y5T I/S Y5U
5T ...	NCD ... Y5V	Same
5U ...	NCD ... Z5V	Same
5V ... (Z4V)	NCD ... Y5V	Offer Z5V I/S Z4V
5W ...	NCD ... Y5P	Same
5Y ... (Y5U)	NCD ... Y5T	Offer Y5T I/S Y5U
5Z ...	NCD ... Y5V	Same



Epoxy Coated : High Voltage
(2000VDC - 15,000VDC)



Supplied on Tape or in Bulk
(Long or Cut Lead Options)

↑
Replace AVX "5x" Part Numbers
with NCD series from NIC



WWW LINK: <http://tinyurl.com/6dezbl>

NCD Series - Ceramic Disc Capacitors

Capacitance Range	Voltage Range	TCs - Temperature Coefficients
0.5pF (0R5) - 0.22uF (224)	12V - 1000VDC (Standard) 2000V - 15,000VDC (High Voltage)	NPO, N150, N750, N1500, N3300, SL, Y5F, Y5P, Y5R, Y5S, Y5T, Y5V, Z5U, Z5V



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

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November 2008

NIC Components Corp.

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