

Date: November 2009

RE: Flammability Characteristics

NRC, NRCP, NRCS & NCST series – Thick Film Chip Resistors (Standard & Current Sensing)

NRSN & NRSNE series – Thick Film Chip Resistor Arrays

NTR series – Thin Film Chip Resistors

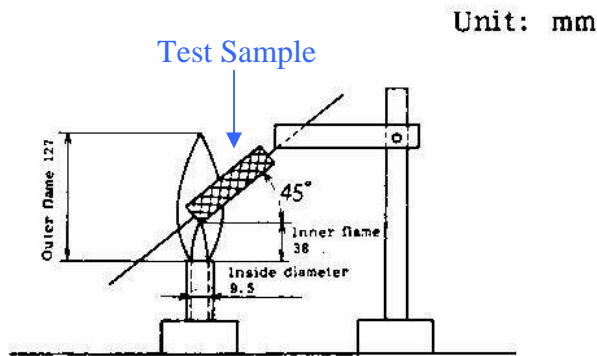
NCSR series – Precision Conductor Current Sensing Chip Resistors

1.) Flammability Test: JIS-C5202 – 7.12.3.1

Test Method:

- Measure burning time on test sample
- 5 times exposure to flame (not exceeding 10 seconds per exposure) with 15 second interval off flame between exposure to flame
- Monitor for ignition of test sample

Test Equipment: Propane Gas (flame source)

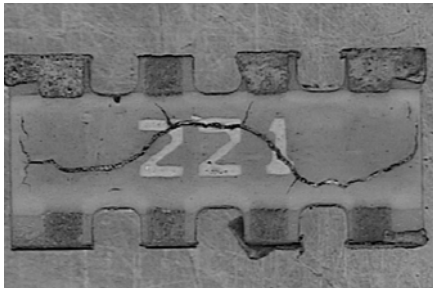


JIS-C5202 – 7.12.3.1 Test Result:

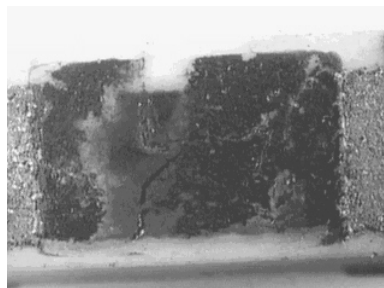
- 1.) No ignition of overcoat material (polymer)
- 2.) Found overcoat material (polymer) became white color

APPEARANCE AFTER TEST

NRSN Series – Chip Resistor Array



NRC Series – Chip Resistor





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2.) **UL-94V0** Flammability Test

Overcoat Material: Epoxy (polymer)

Overcoat Material Supplier: NAMICS [www.namics.co.jp]

Polymer Material: OHMCOAT 1036, 1033B & 1055B

Per *NAMICS*: Above materials **does not meet UL-94V0** (no UL yellow card)

- NRC, NRCP & NRCS series: OHMCOAT 1036
- NRSN series: OHMCOAT 1036
- NCSR & NCST series: OHMCOAT 1033B & 1055B
- NTR series: OHMCOAT 1036

Overcoat Material Supplier: NAMICS [www.namics.co.jp]

Polymer Material: OHMCOAT 1057K

Per *NAMICS*: OHMCOAT 1057K **meets "HB"** (Horizontal Burn) test **of UL-94**

- NRSNE series: OHMCOAT 1057K

Prepared by:

A handwritten signature in black ink, appearing to read 'Jim Wright', with a horizontal line extending to the right.

Jim Wright, NIC Components Corp.

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