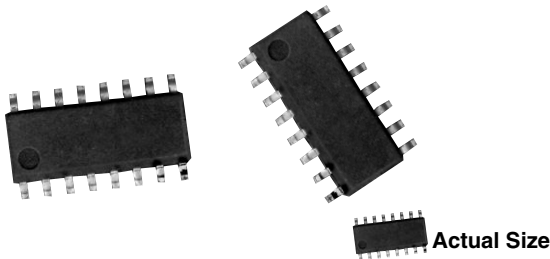


Molded, 50 mil Pitch, Dual-In-Line Thin Film Resistor, Narrow Body, Surface Mount Network



The NOMC series features a standard 14 pins and 16 pins narrow body (0.150") small outline surface mount style. It can accommodate resistor networks to your particular application requirements. The networks can be constructed with passivated nichrome (standard), or tantalum nitride ⁽¹⁾ resistor films to optimize performance.

Note

⁽¹⁾ Available upon request. Resistance value range and performance differs from passivated nichrome standard electrical specifications on datasheet, consult factory.

FEATURES

- Standard 14 pins and 16 pins counts (0.150" narrow body) JEDEC MS-012 variation AB and AC
- Rugged molded case construction
- Excellent long term ratio stability ($\Delta R \pm 0.015\%$)
- Low TCR tracking ± 5 ppm/°C
- Isolated and bussed schematics
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912



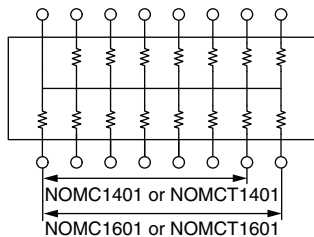
RoHS*
COMPLIANT
HALOGEN
FREE

Note

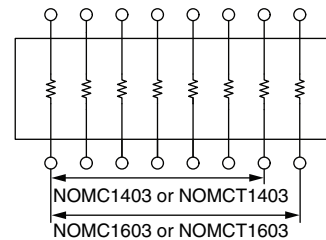
* Lead (Pb)-containing terminations are not RoHS-compliant. Exemptions may apply.

TYPICAL PERFORMANCE

| | ABSOLUTE | TRACKING |
|------|----------|----------|
| TCR | 25 | 5 |
| | ABSOLUTE | RATIO |
| TOL. | 0.10 | 0.05 |

SCHEMATICS


The 01 circuit provides a choice of 13 or 15 equal value resistors each connected between a common lead (14 or 16). Custom schematics available.



The 03 circuit provides a choice of 7 or 8 equal value resistors each connected between a common lead (14 or 16). Custom schematics available.

| STANDARD RESISTANCE OFFERING (Equal Value Resistors) | |
|--|-----------------------|
| ISOLATED (03) SCHEMATIC | BUSSED (01) SCHEMATIC |
| 1 kΩ | 10 kΩ |
| 2 kΩ | 20 kΩ |
| 5 kΩ | |
| 10 kΩ | |
| 20 kΩ | |
| 100 kΩ | |

Note

- Consult factory for additional values

| STANDARD ELECTRICAL SPECIFICATIONS | | |
|------------------------------------|---|---------------------|
| TEST | SPECIFICATIONS | CONDITIONS |
| Material | Passivated nichrome (standard) Tantalum nitride (available upon request) | - |
| Pin/Lead Number | 14, 16 | - |
| Resistance Range | 100 Ω to 50 kΩ each resistor (bussed (01) schematic) 100 Ω to 100 kΩ each resistor (isolated (03) schematic) | - |
| TCR: Absolute | ± 25 ppm/°C (standard) | - 55 °C to + 125 °C |
| TCR: Tracking | ± 5 ppm/°C (typical) | - 55 °C to + 125 °C |
| Tolerance: Absolute | ± 0.10 % to ± 1 % | + 25 °C |
| Tolerance: Ratio | ± 0.025 % to ± 0.1 % | + 25 °C |
| Power Rating: Resistor | 100 mW (typical) (03) schematic 50 mW ((01) schematic) | Maximum at + 70 °C |
| Power Rating: Package | 400 mW/500 mW | Maximum at + 70 °C |
| Stability: Absolute | ΔR ± 0.05 % | 2000 h at + 70 °C |
| Stability: Ratio | ΔR ± 0.015 % | 2000 h at + 70 °C |
| Voltage Coefficient | < 0.1 ppm/V | - |
| Working Voltage | 100 V max. not to exceed $\sqrt{P \times R}$ | - |
| Operating Temperature Range | - 55 °C to + 125 °C | - |
| Storage Temperature Range | - 55 °C to + 150 °C | - |
| Noise | ≤ - 30 dB | - |
| Thermal EMF | 0.08 μV/°C | - |
| Shelf Life Stability: Absolute | ΔR ± 0.01 % | 1 year at + 25 °C |
| Shelf Life Stability: Ratio | ΔR ± 0.002 % | 1 year at + 25 °C |

| DIMENSIONS AND IMPRINTING in inches and millimeters | | | | |
|---|--------|-------------|--------|-------------|
| DIMENSION | 14 | | 16 | |
| | INCHES | MILLIMETERS | INCHES | MILLIMETERS |
| H | 0.235 | 5.969 | 0.235 | 5.969 |
| E | 0.154 | 3.911 | 0.154 | 3.91 |
| O | 0.340 | 8.363 | 0.390 | 9.906 |
| A | 0.063 | 1.60 | 0.063 | 1.60 |
| e | 0.050 | 1.270 | 0.050 | 1.270 |
| B | 0.015 | 0.381 | 0.015 | 0.381 |
| C | 0.008 | 0.203 | 0.008 | 0.203 |
| L | 0.025 | 0.635 | 0.025 | 0.635 |
| A1 | 0.006 | 0.152 | 0.006 | 0.152 |
| h | 0.015 | 0.381 | 0.015 | 0.381 |

| MECHANICAL SPECIFICATIONS | |
|------------------------------------|---------------------|
| Resistive Element | Passivated nichrome |
| Substrate Material | Silicon |
| Body | Molded epoxy |
| Terminals | Copper alloy |
| Lead (Pb)-free Option | 100 % matte tin |
| Tin Lead Option | Sn90 |
| Tin Lead and Lead (Pb)-free Finish | Plated |

Note

- Available upon request. Resistance value range and performance differs from passivated nichrome standard electrical specifications on datasheet, consult factory.



| ORDERING INFORMATION CHECK LIST (Customs) | |
|--|--|
| Special requirements should be identified in advance, but as a minimum, you should have the following information ready. | |
| ELECTRICAL | MECHANICAL |
| 1. Resistors, by value and tolerance 2. Reference resistor(s) and matching of which resistors to which reference resistors 3. Reference by ratio 4. Absolute temperature coefficient of resistivity 5. Temperature tracking of subordinate resistors to reference resistor(s) 6. Maximum operating voltage 7. Resistor power ratings 8. Operating temperature range | 1. Maximum allowable seated height (from PC board to top of network) 2. Special marking concerns 3. Schematic pin out of package |

| GLOBAL PART NUMBER INFORMATION | | | | | | | | | | | | | | | | |
|--|------------------------|-----------|--|-----------|---|-------------|---|--|---|---|---|---|---|---|---|---|
| New Global Part Numbering: NOMC16031002BUF | | | | | | | | | | | | | | | | |
| | N | O | M | C | 1 | 6 | 0 | 3 | 1 | 0 | 0 | 2 | B | U | F | |
| | N | O | M | C | T | 1 | 4 | 0 | 3 | 1 | 0 | 0 | 3 | Z | T | 1 |
| GLOBAL MODEL (4 or 5 digits) | PINS | | SCHEMATIC | | RESISTANCE | | | TOLERANCE AND RATIO TOLERANCE | | PACKAGING | | | | | | |
| NOMC (Tin Lead) NOMCT (Lead (Pb)-free) (e3) | 14 16 | | 01 = 13 or 15 bussed equal value resistors 03 = 7 or 8 isolated equal value resistors | | First 3 digits are significant figures and the last digit specifies the number of zeros to follow. Example: 1002 = 10K 1003 = 100K | | | Abs. Tol. Ratio A = 0.1 % ⁽¹⁾ 0.05 % B = 0.1 % 0.1 % C = 0.25 % 0.1 % D = 0.5 % 0.1 % F = 1 % 0.5 % Z = 0.1 % ⁽¹⁾ 0.025 % | | TAPE AND REEL T0 = 100 min., 100 mult T1 = 1000 min., 1000 mult ⁽²⁾ T3 = 300 min., 300 mult T5 = 500 min., 500 mult TF = Full reel 2500 TS = 100 min., 1 mult UF = TUBED | | | | | | |
| Historical Part Number example: NOMC16031002Z (for reference purposes only) | | | | | | | | | | | | | | | | |
| NOMC | | 16 | | 03 | | 1002 | | Z | | | | | | | | |
| SERIES | | PINS | | SCHEMATIC | | RESISTANCE | | TOLERANCE AND RATIO TOLERANCE | | | | | | | | |

Notes

- ⁽¹⁾ Tolerance available 1K and up
- ⁽²⁾ Preferred packaging code



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- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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