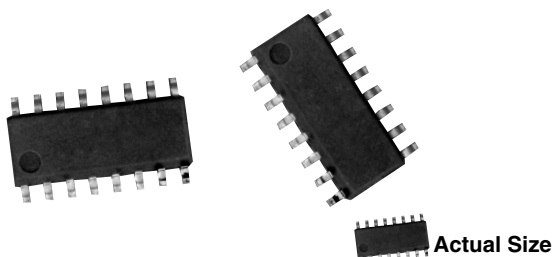


### Molded, 50 Mil Pitch, Dual-In-Line Resistor Network Narrow Body

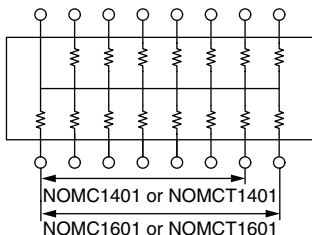


The NOMC series features a standard 14 and 16 pin narrow body (0.150") small outline surface mount style. It can accommodate resistor networks to your particular application requirements. The networks can be constructed with Passivated Nichrome (standard), or Tantalum Nitride <sup>(1)</sup> resistor films to optimize performance.

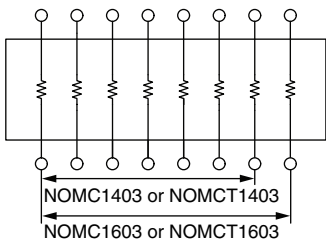
**Note**

<sup>(1)</sup> Available upon request. Resistance value range and performance differs from Passivated Nichrome standard electrical specifications on datasheet, consult factory.

**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

**FEATURES**

- Lead (Pb)-free available
- Standard 14 and 16 pin counts (0.150" Narrow Body) JEDEC MS-012
- Rugged molded case construction
- Stable thin film element (500 ppm at + 70 °C at 2000 h)
- Low temperature coefficient ( $\pm 25$  ppm/°C)



**RoHS\***  
COMPLIANT

**TYPICAL PERFORMANCE**

	ABS	TRACKING
TCR	25	5
	ABS	RATIO
TOL	0.10	0.05

**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	

Consult factory for additional values

**STANDARD ELECTRICAL SPECIFICATIONS**

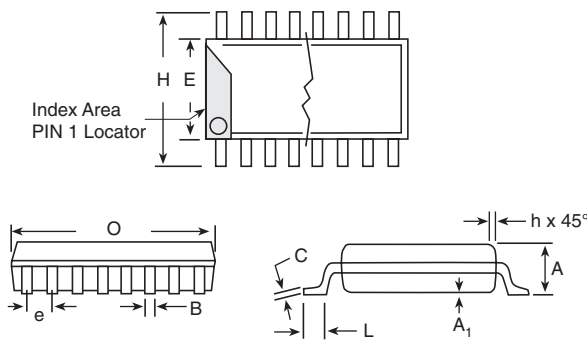
TEST	SPECIFICATIONS	CONDITIONS
Pin Number	14, 16	
Resistance Range	Bussted (01) Schematic	100 Ω to 50 kΩ each resistor
	Isolated (03) Schematic	100 Ω to 100 kΩ each resistor
TCR	Tracking	$\pm 5$ ppm/°C typical
	Absolute	$\pm 25$ ppm/°C standard

\* Pb containing terminations are not RoHS compliant, exemptions may apply



STANDARD ELECTRICAL SPECIFICATIONS			
TEST		SPECIFICATIONS	CONDITIONS
Tolerance	Ratio	$\pm 0.1\%$ to $\pm 0.025\%$	+ 25 °C
	Absolute	$\pm 1.0\%$ to $\pm 0.10\%$	+ 25 °C
Power Rating	Resistor	50 mW per element typical	Max. at + 70 °C
	Package	400 mW 500 mW	Max. at + 70 °C
Stability	$\Delta R$ Absolute	500 ppm	2000 h at + 70 °C
	$\Delta R$ Ratio	150 ppm	2000 h at + 70 °C
Voltage Coefficient		< 0.1 ppm/V	
Working Voltage		50 V	
Operating Temperature Range		- 55 °C to + 125 °C	
Storage Temperature Range		- 55 °C to + 150 °C	
Noise		< - 30 dB	
Thermal EMF		0.08 $\mu V/^\circ C$	
Shelf Life Stability	Absolute	100 ppm	1 year at + 25 °C
	Ratio	20 ppm	1 year at + 25 °C

**DIMENSIONS AND IMPRINTING** in inches and millimeters



DIMENSION	14		16	
	Inches	mm	Inches	mm
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
A <sub>1</sub>	0.006	0.152	0.006	0.152
h	0.015	0.381	0.015	0.381

MECHANICAL SPECIFICATIONS	
Resistive Element	Passivated Nichrome (standard) or Tantalum Nitride <sup>(1)</sup>
Substrate Material	Silicon
Terminals	Copper
Lead Coplanarity	$\pm 0.004$
Body	Molded Epoxy
Marking Resistance to Solvents	Per MIL-PRF-83401
Model NOMC	85 Sn/15 Pb (Plated)
Model NOMCT	100 % Matte Tin (Plated)

**Note**

<sup>(1)</sup> 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
<ol style="list-style-type: none"> <li>Resistors, by value and tolerance</li> <li>Reference resistor(s) and matching of which resistors to which reference resistors</li> <li>Resistance by ratio</li> <li>Absolute temperature coefficient of resistivity</li> <li>Temperature tracking of subordinate resistors to reference resistor(s)</li> <li>Maximum operating voltage</li> <li>Resistor power ratings</li> <li>Operating temperature range</li> </ol>	<ol style="list-style-type: none"> <li>Maximum allowable seated height (from PC board to top of network)</li> <li>Special marking concerns</li> <li>Schematic pin out of package</li> </ol>

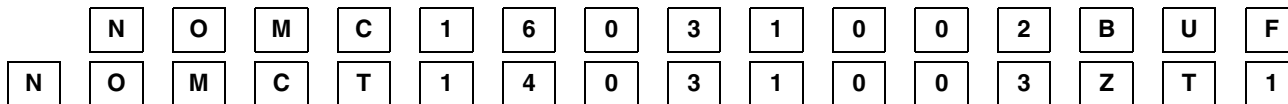
# NOMC



Vishay Thin Film Molded, 50 Mil Pitch, Dual-In-Line Resistor Network  
Narrow Body

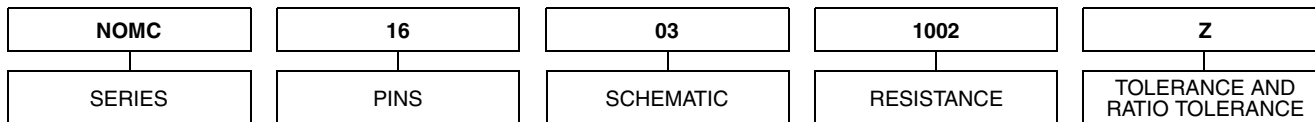
## GLOBAL PART NUMBER INFORMATION

New Global Part Numbering: **NOMC16031002BUF** (preferred part number format)



GLOBAL MODEL (4 or 5 digits)	PINS	SCHEMATIC	RESISTANCE	TOLERANCE AND RATIO TOLERANCE	PACKAGING														
<b>NOMC</b> (Tin Lead)  <b>NOMCT</b> (Lead (Pb)-free) (e3)	<b>14</b> <b>16</b>	<b>01</b> = 13 or 15 Bussed equal value resistors <b>03</b> = 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	<table style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">Abs. Tol.</th> <th style="width: 50%;">Ratio</th> </tr> <tr> <td><b>A</b> = 0.1 %</td> <td>0.05 %</td> </tr> <tr> <td><b>B</b> = 0.1 %</td> <td>0.1 %</td> </tr> <tr> <td><b>C</b> = 0.25 %</td> <td>0.1 %</td> </tr> <tr> <td><b>D</b> = 0.5 %</td> <td>0.1 %</td> </tr> <tr> <td><b>F</b> = 1 %</td> <td>0.5 %</td> </tr> <tr> <td><b>Z</b> = 0.1 %</td> <td>0.025 %</td> </tr> </table> * Tol. available 1K and up	Abs. Tol.	Ratio	<b>A</b> = 0.1 %	0.05 %	<b>B</b> = 0.1 %	0.1 %	<b>C</b> = 0.25 %	0.1 %	<b>D</b> = 0.5 %	0.1 %	<b>F</b> = 1 %	0.5 %	<b>Z</b> = 0.1 %	0.025 %	TAPE AND REEL <b>T0</b> = 100 Min 100 Mult <b>T1</b> = 1000 Min 1000 Mult <b>T3</b> = 300 Min 300 Mult <b>T5</b> = 500 Min 500 Mult <b>TF</b> = Full Reel 2500 <b>TS</b> = 100 Min 1 Mult  <b>UF</b> = TUBED
Abs. Tol.	Ratio																		
<b>A</b> = 0.1 %	0.05 %																		
<b>B</b> = 0.1 %	0.1 %																		
<b>C</b> = 0.25 %	0.1 %																		
<b>D</b> = 0.5 %	0.1 %																		
<b>F</b> = 1 %	0.5 %																		
<b>Z</b> = 0.1 %	0.025 %																		

Historical Part Number example: **NOMC16031002Z** (will continue to be accepted)





## Disclaimer

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