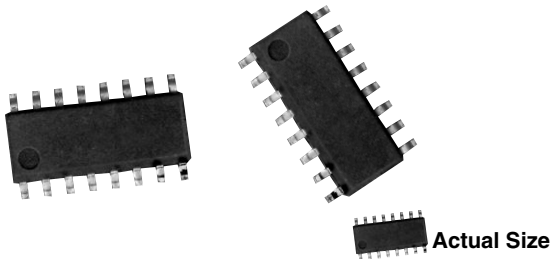


Molded, 50 mil Pitch, Dual-In-Line Thin Film Resistor, Narrow Body, Surface Mount Network



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

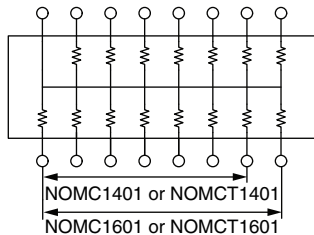
- Standard 14 pins and 16 pins counts (0.150" narrow body) JEDEC MS-012 variation AB and AC
- Rugged molded case construction
- Excellent long term ratio stability ($\Delta R \pm 0.015\%$)
- Low TCR tracking ± 5 ppm/ $^{\circ}\text{C}$
- Isolated and bussed schematics
- Material categorization: for definitions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


Note

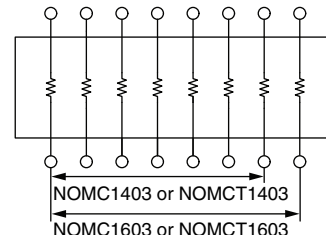
* This datasheet provides information about parts that are RoHS-compliant and / or parts that are non RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information / tables in this datasheet for details

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 (14 or 16). Custom schematics available.

STANDARD RESISTANCE OFFERING (Equal Value Resistors)	
ISOLATED (03) SCHEMATIC	BUSSED (01) SCHEMATIC
1 k Ω	1 k Ω
2 k Ω	5 k Ω
5 k Ω	10 k Ω
10 k Ω	20 k Ω
20 k Ω	
25 k Ω	
50 k Ω	
100 k Ω	

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 k Ω each resistor (bussed (01) schematic) 100 Ω to 100 k Ω each resistor (isolated (03) schematic)	-
TCR: Absolute	± 25 ppm/ $^{\circ}\text{C}$ (standard)	- 55 $^{\circ}\text{C}$ to + 125 $^{\circ}\text{C}$
TCR: Tracking	± 5 ppm/ $^{\circ}\text{C}$ (typical)	- 55 $^{\circ}\text{C}$ to + 125 $^{\circ}\text{C}$
Tolerance: Absolute	± 0.10 % to ± 1 %	+ 25 $^{\circ}\text{C}$
Tolerance: Ratio	± 0.025 % to ± 0.1 %	+ 25 $^{\circ}\text{C}$
Power Rating: Resistor	100 mW (typical) (03) schematic 50 mW ((01) schematic)	Maximum at + 70 $^{\circ}\text{C}$
Power Rating: Package	400 mW/500 mW	Maximum at + 70 $^{\circ}\text{C}$
Stability: Absolute	$\Delta R \pm 0.05$ %	2000 h at + 70 $^{\circ}\text{C}$
Stability: Ratio	$\Delta R \pm 0.015$ %	2000 h at + 70 $^{\circ}\text{C}$
Voltage Coefficient	< 0.1 ppm/V	-
Working Voltage	100 V max. not to exceed $\sqrt{P \times R}$	-
Operating Temperature Range	- 55 $^{\circ}\text{C}$ to + 125 $^{\circ}\text{C}$	-
Storage Temperature Range	- 55 $^{\circ}\text{C}$ to + 150 $^{\circ}\text{C}$	-
Noise	≤ -30 dB	-
Thermal EMF	0.08 $\mu\text{V}/^{\circ}\text{C}$	-
Shelf Life Stability: Absolute	$\Delta R \pm 0.01$ %	1 year at + 25 $^{\circ}\text{C}$
Shelf Life Stability: Ratio	$\Delta R \pm 0.002$ %	1 year at + 25 $^{\circ}\text{C}$

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	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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