Vishay Thin Film



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





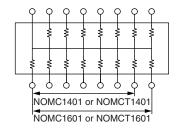


The NOMC series features a standard 14 pins and 16 pins narrow body (0.150") small outline surface mount style. It can accommodate resistor networks to your particular application requirements. The networks can be constructed with passivated nichrome (standard), or tantalum nitride ⁽¹⁾ resistor films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

Note

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

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.

FEATURES

 Standard 14 pins and 16 pins counts (0.150" narrow body) JEDEC MS-012 variation AB and AC

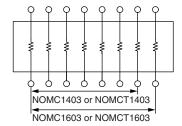


RoHS

- Rugged molded case construction
- Excellent long term ratio stability (ΔR ± 0.015 %)
- Low TCR tracking ± 5 ppm/°C
- Compliant to RoHS directive 2002/95/EC

TYPICAL PERFORMANCE

	ABSOLUTE	TRACKING
TCR	25	5
	ABSOLUTE	RATIO
TOL.	0.10	0.05



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

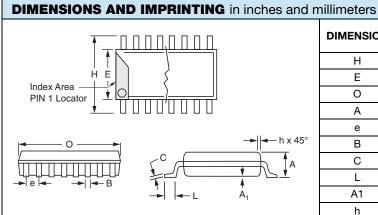
^{*} Pb containing terminations are not RoHS compliant, exemptions may apply



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STANDARD ELECTRICAL SPECIFICATIONS				
TEST	SPECIFICATIONS	CONDITIONS		
Material	Passivated nichrome (standard) Tantalum nitride (available upon request)	-		
Pin/Lead Number	14, 16	-		
Desistance Desis	100 Ω to 50 k Ω each resistor (bussed (01) schematic)	-		
Resistance Range	100 Ω to 100 k Ω 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)	Maximum at + 70 °C		
1 Ower Hading, Hesister	50 mW ((01) schematic)	Waximam at 170 G		
Power Rating: Package	400 mW/500 mW	Maximum at + 70 °C		
Stability: Absolute	$\Delta R \pm 0.05 \%$	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 √P x 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		



Timil Tioloro				
DIMENSION	14		16	
	INCHES	MILLIMETERS	INCHES	MILLIMETERS
Н	0.235	5.969	0.235	5.969
Е	0.154	3.911	0.154	3.91
0	0.340	8.363	0.390	9.906
Α	0.063	1.60	0.063	1.60
е	0.050	1.270	0.050	1.270
В	0.015	0.381	0.015	0.381
С	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

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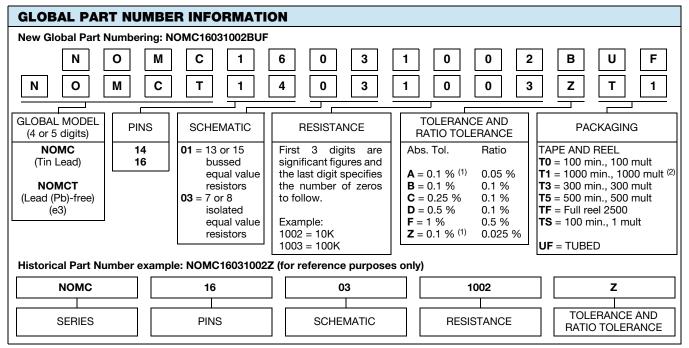
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ORDERING INFORMATION CHECK LIST (Customs) Special requirements should be identified in advance, but as a minimum, you should have the following information ready. **ELECTRICAL** 1. Maximum allowable seated height (from PC board to top of 1. Resistors, by value and tolerance 2. Reference resistor(s) and matching of which resistors to which network) reference resistors 2. Special marking concerns 3. Reference by ratio 3. Schematic pin out of package 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



Notes

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

www.vishay.com

For technical questions, contact: thinfilm@vishay.com

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