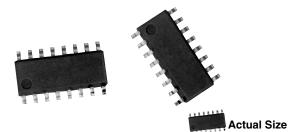
Vishay Dale Thin Film





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

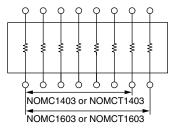
- Standard 14 pins and 16 pins counts (0.150" narrow body) JEDEC MS-012 variation AB and AC
- Rugged molded case construction
- Excellent long term ratio stability (ΔR ± 0.015 %)
- Low TCR tracking ± 5 ppm/°C
- · Isolated and bussed schematics
- Material categorization: for definitions of compliance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

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

\bullet	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 (14 or 16). Custom schematics available.

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

Note

· Consult factory for additional values

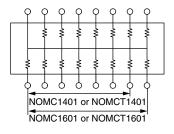
Revision: 25-Apr-17



NOMC

www.vishay.com

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.

Vishay Dale Thin Film

1 year at + 25 °C

1 year at + 25 °C

INCHES

0.235

0.154

0.390

0.063

16

MILLIMETERS

5.969

3.91

9.906

1.60

14

INCHES

0.235

0.154

0.340

0.063

MILLIMETERS

5.969

3.911

8.363

1.60

Sn90

Plated

							1
			е	0.050	1.270	0.050	1.270
0		→ h x 45°	В	0.015	0.381	0.015	0.381
	ζ^{c}		С	0.008	0.203	0.008	0.203
└ <u>╷</u> ┝┥ <u>┝</u> ┥ <u>┝</u> ┥ <u>┝</u> ┥ <u>┝</u> ┥ <u>┝</u> ┥ <u>┝</u> ┙ ╶ > │ ╒ │ ╤ ╴ ─ > │ ╤ ─₿			L	0.025	0.635	0.025	0.635
	_ → ∢ _ L	A ₁	A1	0.006	0.152	0.006	0.152
			h	0.015	0.381	0.015	0.381
							I
		6					
MECHANICAL SPE	CIFICATION	S		1	Desciente duriste		
	CIFICATION	S		I	Passivated nich	rome	
Resistive Element	CIFICATION	S			Passivated nich Silicon	rome	
MECHANICAL SPE Resistive Element Substrate Material Body		S					
Resistive Element Substrate Material		S			Silicon	(y	

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

Revision:	25-Apr-17
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Tin Lead Option

Tin Lead and Lead (Pb)-free Finish

TEST	SPECIFICATIONS	CONDITIONS
Material	Passivated nichrome (standard) Tantalum nitride (available upon request)	-
Pin/Lead Number	14, 16	-
Desistance Denne	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
rower nating. nesistor	50 mW ((01) schematic)	Maximum at + 70°C
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	$\Delta R \pm 0.015$ %	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	-

 $\Delta R \pm 0.01$ %

 $\Delta R \pm 0.002$ %

DIMENSION

Н

Е

0

A



Shelf Life Stability: Absolute

ΗE

Shelf Life Stability: Ratio

Index Area

PIN 1 Locator

www.vishay.com

STANDARD ELECTRICAL SPECIFICATIONS

DIMENSIONS AND IMPRINTING in inches and millimeters

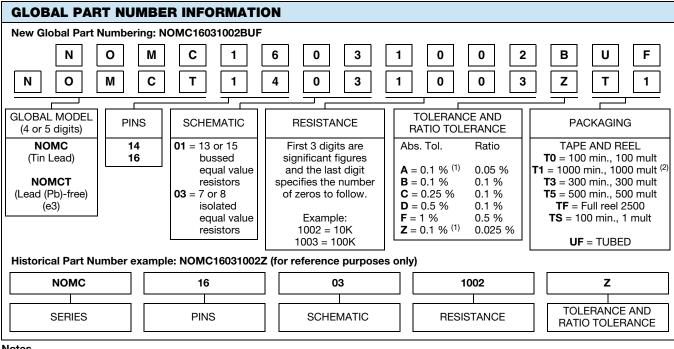
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ORDERING INFORMATION CHECK LIST (Customs)

ELECTRICAL	MECHANICAL
 Resistors, by value and tolerance Reference resistor(s) and matching of which resistors to which reference resistors Reference by ratio Absolute temperature coefficient of resistivity Temperature tracking of subordinate resistors to reference resistor(s) Maximum operating voltage Resistor power ratings Operating temperature range 	 Maximum allowable seated height (from PC board to top of network) Special marking concerns Schematic pin out of package



Notes

⁽¹⁾ Tolerance available 1K and up

⁽²⁾ Preferred packaging code



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