

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

SCHEMATICS

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

NOMC1401 or NOMCT1401

NOMC1601 or NOMCT1601

The 01 circuit provides a choice of 13 or 15 equal value

resistors each connected between a common lead (14 or

FEATURES

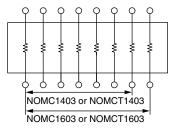
- Standard 14 pins and 16 pins counts (0.150" narrow body) JEDEC MS-012 variation AB and AC
- Rugged molded case construction
- · Excellent long term ratio stability $(\Delta R \pm 0.015 \%)$
- Low TCR tracking ± 5 ppm/°C
- · Isolated and bussed schematics
- Material categorization: for definitions of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

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

16). Custom schematics available.

Revision: 25-Apr-17

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NOMC



CONDITIONS

			6	0.000	1.270	0.000	1.270
0		→ h x 45°	В	0.015	0.381	0.015	0.381
	ς° (С	0.008	0.203	0.008	0.203
Ч,┝–↓┝–↓┝–↓┝–↓┝–↓┝ -► e = −► = − B			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
MECHANICAL SPE	CIFICATION	IS					
Resistive Element					Passivated nich	rome	
Substrate Material					Silicon		
Body					Molded epo:	(y	
Terminals					Copper allo	у	
Lead (Pb)-free Option			100 % matte tin				
Tin Lead Option					Sn90		

Note

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

16

MILLIMETERS

5.969

3.91

9.906

1.60

1.270

INCHES

0.235

0.154

0.390

0.063

0.050

Material	Passivated nichrome (standard) Tantalum nitride (available upon request)	-	
Pin/Lead Number	14, 16	-	
Pasistanas Panga	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 + 12		
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	
Fower hating: hesistor	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	∆ <i>R</i> ± 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	$\Delta R \pm 0.01 \%$	1 year at + 25 °C	
Shelf Life Stability: Ratio	∆ <i>R</i> ± 0.002 %	1 year at + 25 °C	

DIMENSION

Н

Е

0

А

е

14

MILLIMETERS

5.969

3.911

8.363

1.60

1.270

Plated

INCHES

0.235

0.154

0.340

0.063

0.050

SPECIFICATIONS

www.vishay.com

STANDARD ELECTRICAL SPECIFICATIONS

DIMENSIONS AND IMPRINTING in inches and millimeters

4

Е н

Tin Lead and Lead (Pb)-free Finish

Index Area

PIN 1 Locator



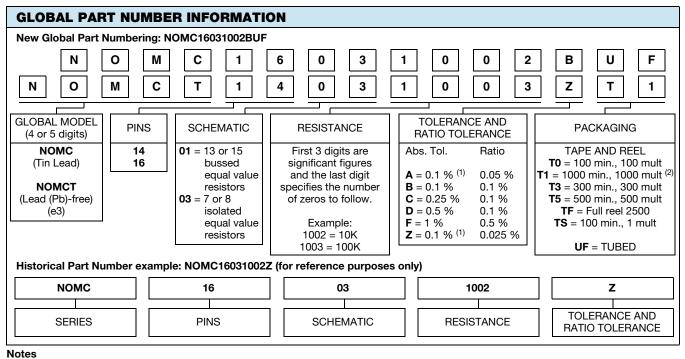
TEST





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 		



⁽¹⁾ Tolerance available 1K and up

⁽²⁾ Preferred packaging code



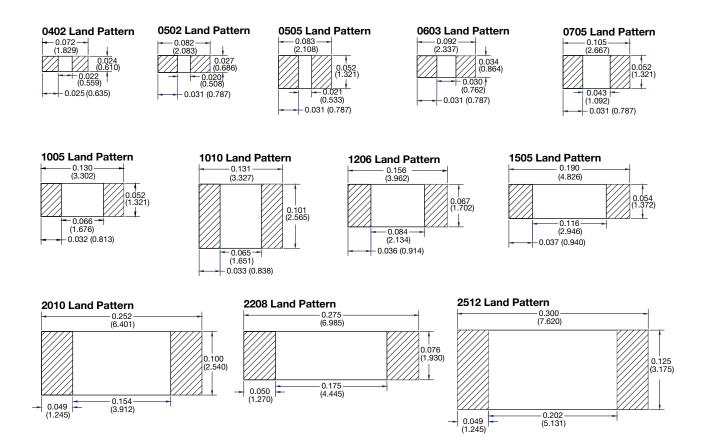
Vishay Dale Thin Film Land Patterns

1. Scope

This technical note provides sample land patterns for Vishay Dale Thin Film SMT resistive products. The following drawings are based on IPC-SM-782 Surface Mount Design and Land Pattern Standard. These drawings are for reference only Vishay Thin Film recommends that the user contacts their PC board supplier for actual land patterns required. The pads are intended for lead (Pb)-free and tin / lead solder types.

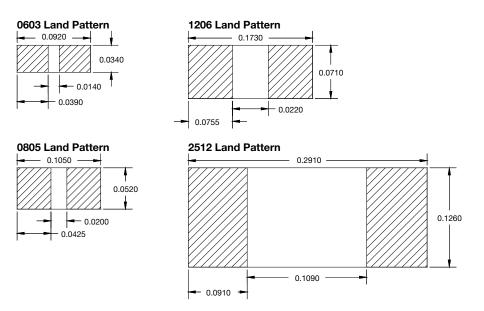
2. Product Series

Thin Film Surface Mount Chip Resistors (FC, L, P, PTN, PLT, PLTT. PLTU, PAT, PATT, PNM, M/D55342 QPL Series)

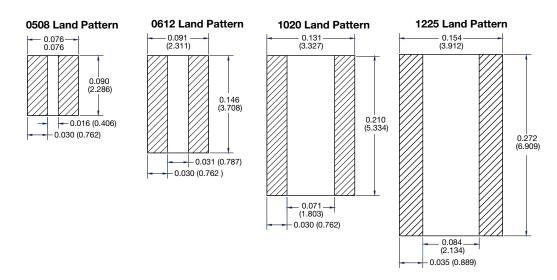




Thin Film Surface Mount Chip Resistors (PHP, PCAN Series)



Thin Film Surface Mount Chip Resistors Long Axis Termination (L Series)



SC70-4 (MP4)

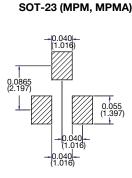
0.038

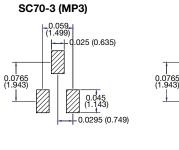
-0.025 (0.635)

045 143

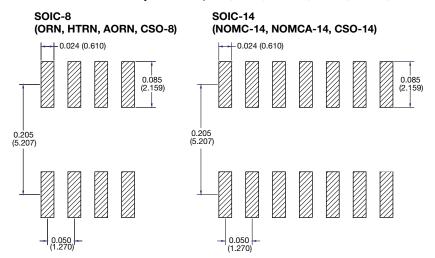


Surface Mount Networks (MPM, MP3, MP4 Series)

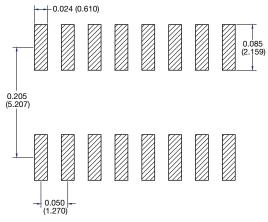




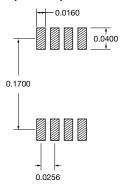
Surface Mount Networks SOIC Narrow Body 150 mils (ORN, CSO, MOMC, HTRN, AORN, MORN Series)



SOIC-16 (NOMC-16, NOMCA-16, CSO-16, VSOR-16)



MORN MSOP MO-187AA (MORN-8)

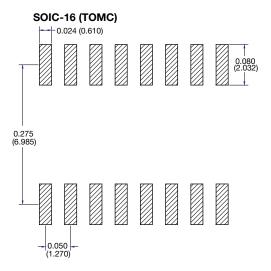


3 For technical questions, contact: <u>thinfilm@vishay.com</u> Document Number: 60119

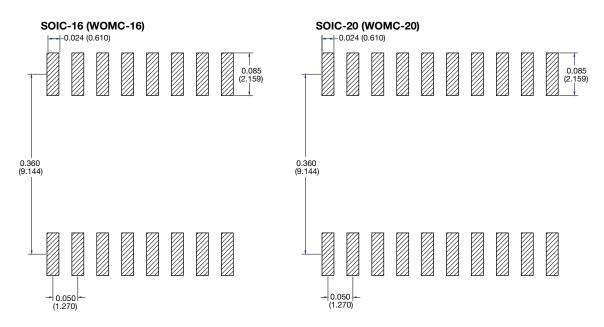
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Surface Mount Networks SOIC Medium Body 220 mils (TOMC Series)

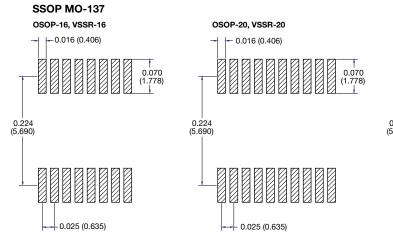


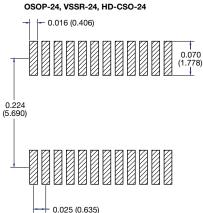
Surface Mount Networks SOIC Wide Body 300 mils (WOMC Series)

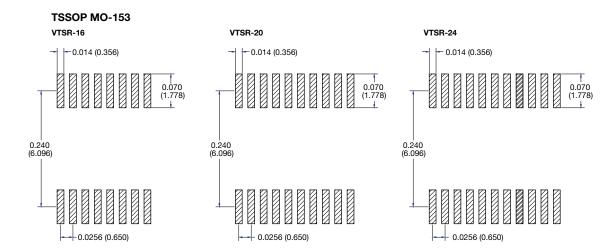




Surface Mount Networks High Density SSOP, TSOP (VSSR, VTSR Series)

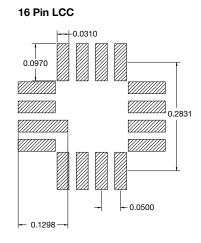


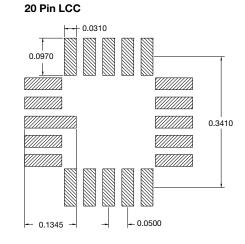




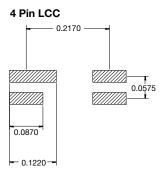


Surface Mount Leadless Networks (LCC Series)





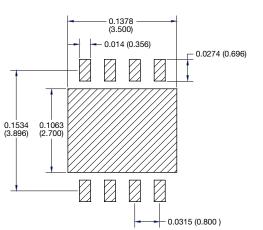
Surface Mount Leadless Networks (MPH Series)



Surface Mount Leadless Packages DUAL/ QUAD Flat No Lead (DFN, QFN Series)

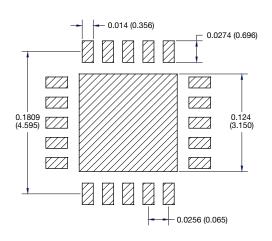


DFN-8 4 x 5 mm Sq



QFN MLP

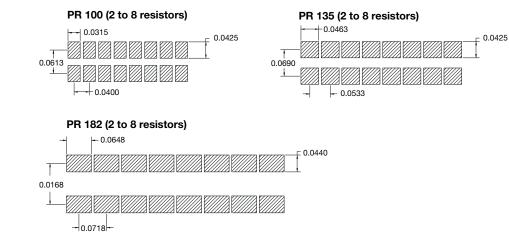
QFN-20 5 x 5 mm Sq



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Surface Mount Leadless Resistor Arrays (PR Series)

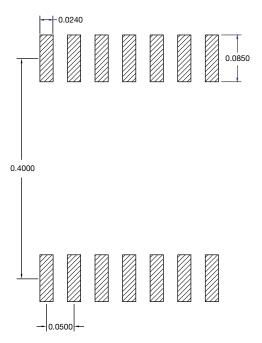


Note

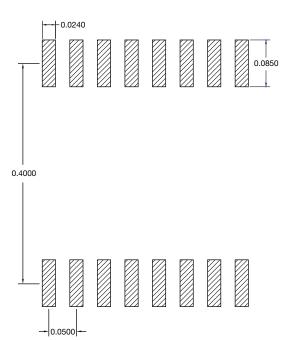
• All dimensions in inches (mm)

Flatpack

14 Pin Bottom Brazed Flatpack



16 Pin Bottom Brazed Flatpack



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 M8340108K1001FCD03
 M8340108K3240FGD03
 M8340108K4991FGD03

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 268-15K

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 M8340107K1004GGD03
 M8340109K2202GCD03

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 M8340108K3901GGD03
 M8340108K4992FGD03
 M8340108K5111FGD03
 M8340109K2202GCD03

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