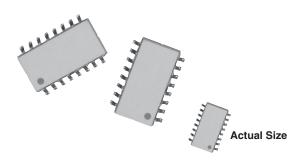
COMPLIANT HALOGEN

FREE

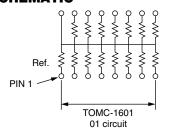


Molded, 50 mil Pitch, Dual-In-Line Thin Film Resistor, Surface Mount Network



Vishay Dale Thin Film offers standard circuits in 16 pins in a medium body molded surface mount package. The networks are available over a resistance range of 100 Ω to 100 k Ω . The network features tight ratio tolerances and close TCR tracking. In addition to the standards shown, custom circuits are available upon request.

SCHEMATIC



The 01 circuit provides 15 nominally equal resistors, each connected between a common lead (16) and a discrete PC board pin.

FEATURES

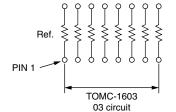
- 0.090" (2.29 mm) maximum seated height
- Rugged, molded case construction (0.22" wide)
- Highly stable thin film ratio stability ($\Delta R \pm 0.015$ % at 70 °C for 2000 h)
- Low temperature coefficient, ± 25 ppm/°C (- 55 °C to + 125 °C)
- Wide resistance range 100 Ω to 100 k Ω
- Isolated/bussed circuits
- Material categorization: For definitions of compliance please see <u>www.vishav.com/doc?99912</u>

Note

Lead (Pb)-containing terminations are not RoHS-compliant. Exemptions may apply.

TYPICAL PERFORMANCE

	ABSOLUTE	TRACKING
TCR	25	5
	ABSOLUTE	RATIO
TOL.	0.1	0.025

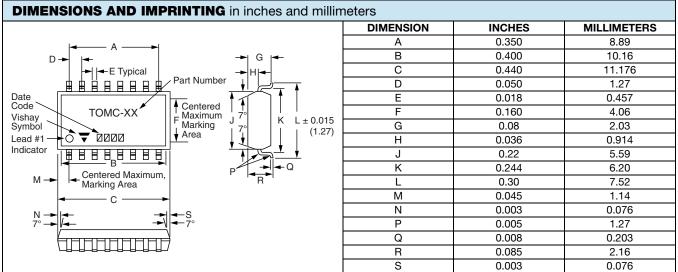


The 03 circuit provides a choice of 8 nominally equal resistors with each resistor isolated from all others and wired directly across.

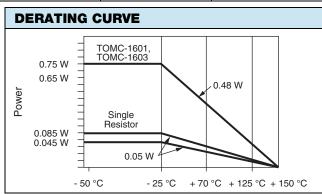
STANDARD ELECTRICAL SPECIFICATIONS		
TEST	SPECIFICATIONS	CONDITIONS
Material	Passivated nichrome	-
Pin/Lead Number	16	-
Resistance Range	100 Ω to 100 k Ω per resistor	-
TCR: Absolute	± 25 ppm/°C	- 55 °C to + 125 °C
TCR: Tracking	± 5 ppm/°C	- 55 °C to + 125 °C
Tolerance: Absolute	± 0.1 % to 1 %	+ 25 °C
Tolerance: Ratio	± 0.025 % to 0.5 %	+ 25 °C
Power Rating: Resistor	50 mW = PIN 16 common	Maximum at + 70 °C
	100 mW = isolated	Maximum at + 70 G
Power Rating: Package	750 mW	Maximum at + 70 °C
Stability: Absolute	ΔR ± 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 √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	$\Delta R \pm 0.002 \%$	1 year at + 25 °C

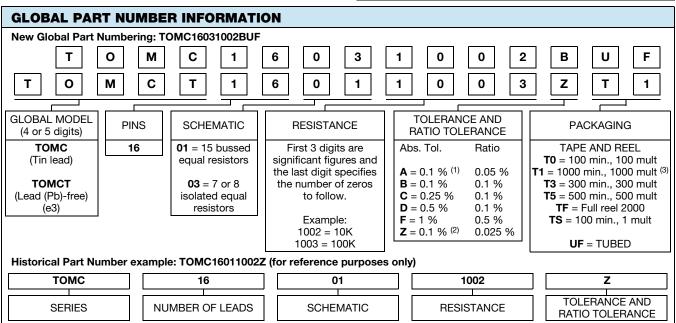
Revision: 08-Jan-13 Document Number: 60008





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	Sn85	
Tin Lead and Lead (Pb)-free Finish	Plated	





Notes

- (1) Tolerance available 250 and up
- (2) Tolerance available 1K and up
- (3) Preferred packaging code



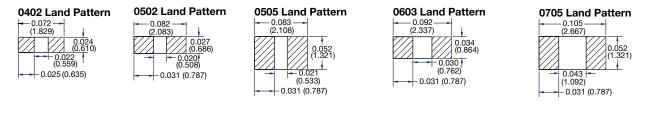
Vishay Dale Thin Film Land Patterns

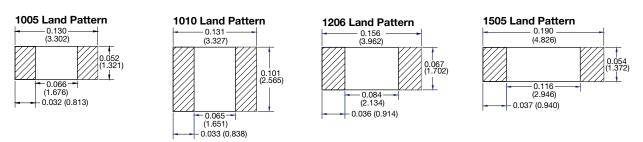
1. Scope

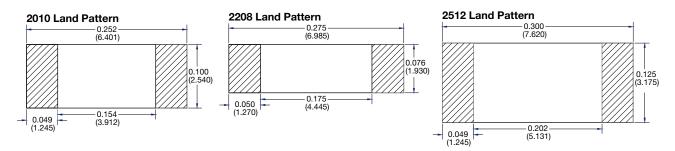
This technical note provides sample land patterns for Vishay Dale Thin Film SMT resistive products. The following drawings are based on IPC-SM-782 Surface Mount Design and Land Pattern Standard. These drawings are for reference only Vishay Thin Film recommends that the user contacts their PC board supplier 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, PLTU, PAT, PATT, PNM, M/D55342 QPL Series)

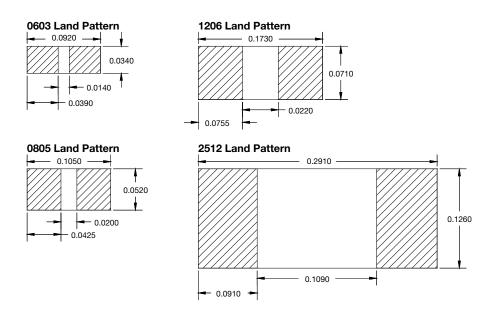




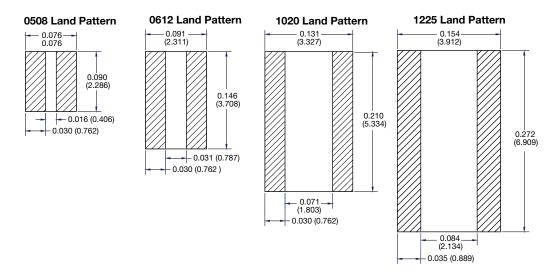




Thin Film Surface Mount Chip Resistors (PHP, PCAN Series)

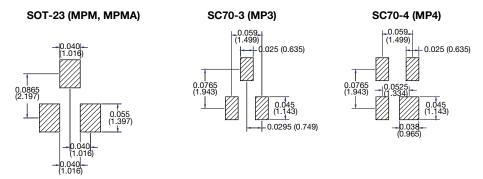


Thin Film Surface Mount Chip Resistors Long Axis Termination (L Series)

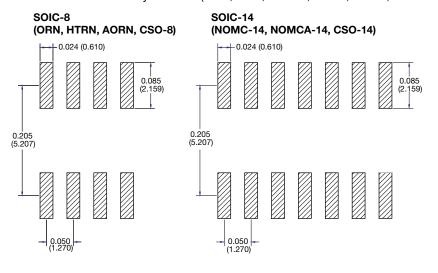


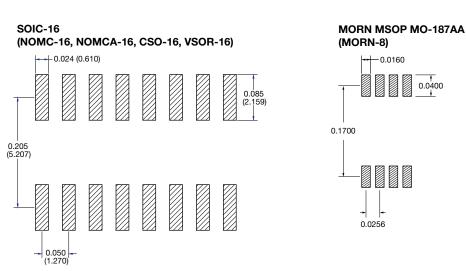


Surface Mount Networks (MPM, MP3, MP4 Series)

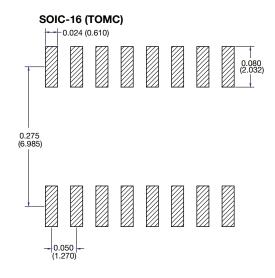


Surface Mount Networks SOIC Narrow Body 150 mils (ORN, CSO, MOMC, HTRN, AORN, MORN Series)

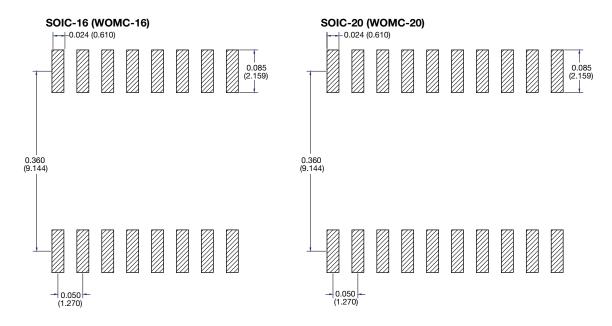




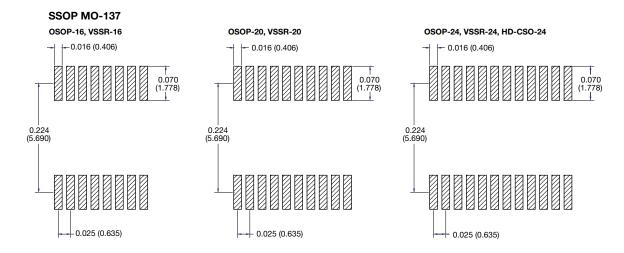
Surface Mount Networks SOIC Medium Body 220 mils (TOMC Series)

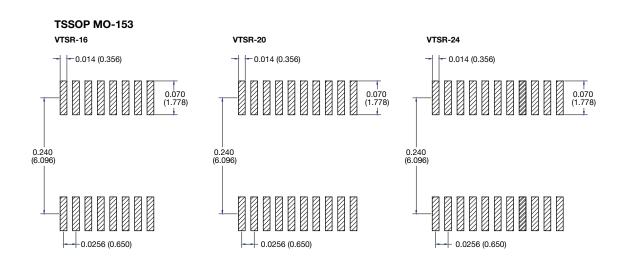


Surface Mount Networks SOIC Wide Body 300 mils (WOMC Series)



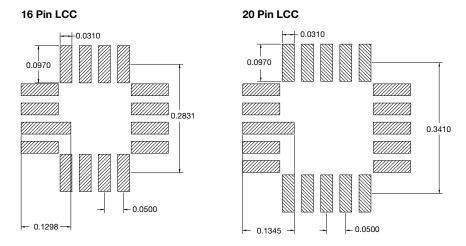
Surface Mount Networks High Density SSOP, TSOP (VSSR, VTSR Series)



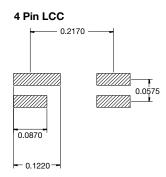




Surface Mount Leadless Networks (LCC Series)

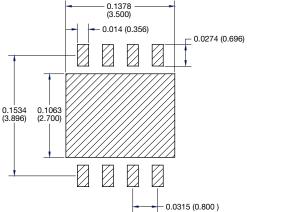


Surface Mount Leadless Networks (MPH Series)



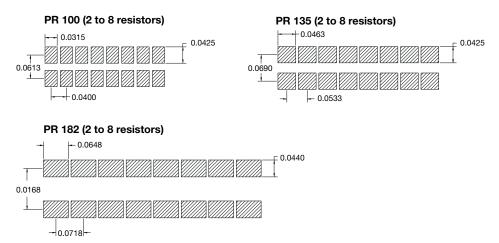
Surface Mount Leadless Packages DUAL/ QUAD Flat No Lead (DFN, QFN Series)

DFN MLP DFN-8 4 x 5 mm Sq QFN-20 5 x 5 mm Sq 0.1378 (3.500)





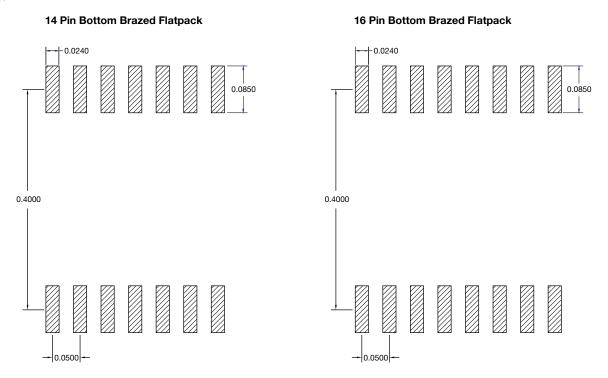
Surface Mount Leadless Resistor Arrays (PR Series)



Note

• All dimensions in inches (mm)

Flatpack





Legal Disclaimer Notice

Vishay

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Resistor Networks & Arrays category:

Click to view products by Vishay manufacturer:

Other Similar products are found below:

CS6600552K000B8768 CSC06A0122K0GEJ CSC08A01470KGEK M8340105K1002FGD03 M8340106MA010FHD03

M8340107K1471FGD03 M8340108K1001FCD03 M8340108K2402GGD03 M8340108K3240FGD03 M8340108K3242FGD03

M8340108K3322FCD03 M8340108K4991FGD03 M8340108K6192FGD03 M8340108K6202GGD03 M8340109K2002FCD03

M8340109M4701GCD03 EXB-24N121JX EXB-24N330JX EXB-24N470JX EXB-A10E102J EXB-A10E104J 744C083101JTR EXB-U14360JX EXB-U18240JX EXB-U18390JX MDP1603100KGE04 PRA100I2-1KBWNW GUS-SS4-BLF-01-1002-G

ACAS06S0830339P100 ACAS06S0830343P100 ACAS06S0830344P100 RM2012A-102/104-PBVW10 RM2012A-102503-PBVW10

RM2012A-502104-PBVW10 RM3216B-102302-PBVW10 L091S102LF ACAS06S0830341P100 ACAS06S0830342P100

ACAS06S0830345P100 EXB-14V300JX EXB-U14220JX EXB-U14470JX EXB-U18330JX EXB-V4N100JV EXB-V8V220GV PRA100I2-10KBWN PRA100I4-10KBWN CSC09A014K70JEK M8340102M4701JAD04 M8340105K1002GGD03