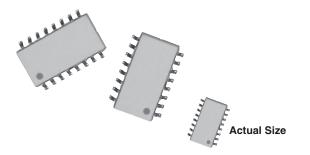
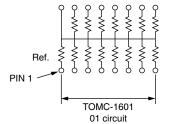
### Vishay Dale Thin Film





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  $\Omega$  to 100 k $\Omega$ . 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

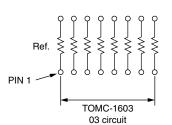
- 0.090" (2.29 mm) maximum seated height
- Rugged, molded case construction (0.22" wide)
- Highly stable thin film ratio stability  $(\Delta R \pm 0.015 \% \text{ at } 70 \degree \text{C} \text{ for } 2000 \text{ h})$
- Low temperature coefficient, ± 25 ppm/°C (-55 °C to +125 °C)
- Wide resistance range 100  $\Omega$  to 100 k $\Omega$
- Isolated / bussed circuits
- 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

lacksquare	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 $\Omega$ to 100 k $\Omega$ 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 100 mW = isolated	Maximum at +70 °C
Power Rating: Package	750 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	$\Delta R \pm 0.002 \%$	1 year at +25 °C

Revision: 12-May-2021

Document Number: 60008

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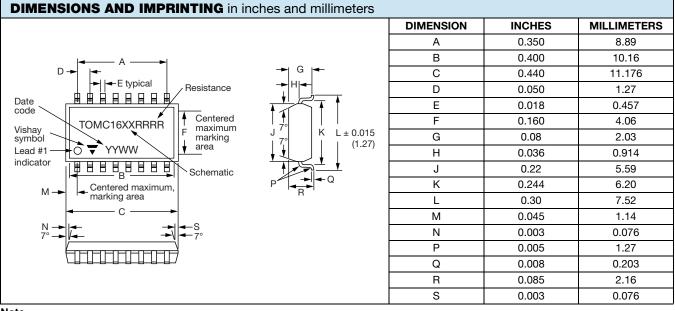


Available RoHS\* Available HALOGEN

Www.vishay.com



### Vishay Dale Thin Film



Note

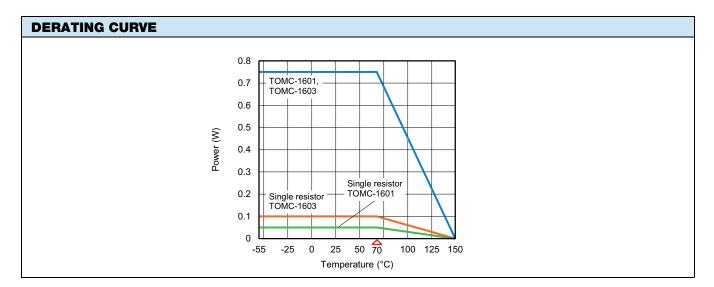
The tolerance and package code is NOT a member of the part marking.
 For space considerations the part number may be broken up, i. e.:

TOMC1603

**1**002

O YYWW

MECHANICAL SPECIFICATIONS		
Resistive Element	Passivated nichrome	
Substrate Material	High purity alumina	
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	



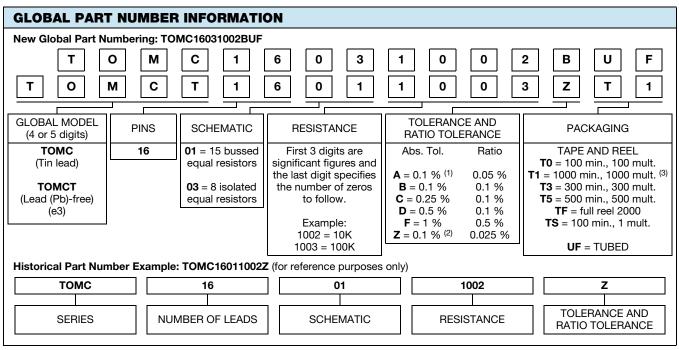
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томс



Vishay Dale Thin Film



Notes

<sup>(1)</sup> Tolerance available 250 and up

<sup>(2)</sup> Tolerance available 1K and up

<sup>(3)</sup> Preferred packaging code



Vishay

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