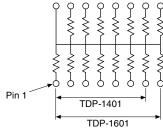




Vishay Dale Thin Film offers two standard circuits in a 14 pins and 16 pins molded dual-in-line over a 100 Ω to 100 k Ω resistance range. The networks feature ratio tolerance to 0.05 % with a TCR tracking of 5 ppm/°C.

SCHEMATIC

Schematic TDP01



Models: TDP1401 and TDP1601 13 or 15 resistors with one pin common

FEATURES

- Standard rugged, molded case construction (14 pins and 16 pins)
- Highly stable thin film (500 ppm at +70 °C at 2000 h)
- Low temperature coefficient (± 25 ppm/°C)
- · Compatible with automatic insertion equipment
- Standard isolated pin one common schematic
- Isolated and bussed schematics
- · Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

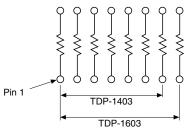
Note

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.	0.1	0.05

Schematic TDP03



Models: TDP1403 and TDP1603 7 or 8 isolated resistors

STANDARD ELECTRICAL SPECIFICATIONS		
TEST	SPECIFICATIONS	CONDITIONS
Material	Passivated nichrome	-
Pin/Lead Number	14, 16	-
Resistance Range	100 Ω to 100 kΩ	-
TCR: Absolute	± 25 ppm/°C	-55 °C to +125 °C
TCR: Tracking	± 5 ppm/°C	-55 °C to +125 °C
Tolerance: Absolute	± 0.1 %	+25 °C
Tolerance: Ratio	± 0.05 % to ± 0.5 %	+25 °C
Power Rating: Resistor	0.05 W/resistor = 01 circuit 0.10 W/resistor = 03 circuit	at +25 °C
Power Rating: Package	0.8 W/package	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	< 1 ppm/V (typical)	-
Working Voltage	100 V	-
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: 07-Apr-2021

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Document Number: 60045

TDP

RoHS

HALOGEN

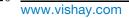
FREE

Molded, Dual-In-Line Thin Film Resistor, Through-Hole Network

www.vishay.com

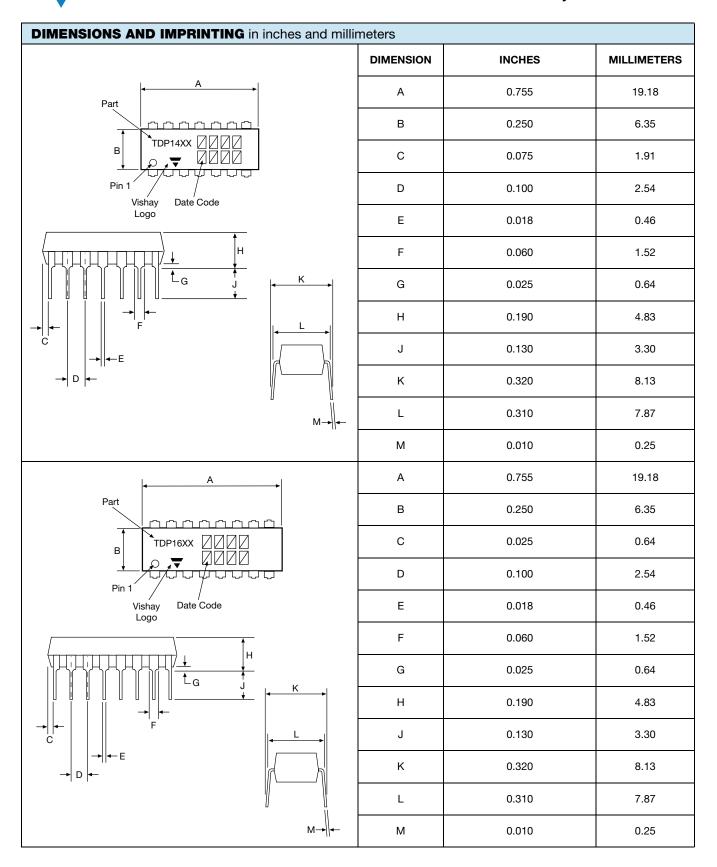
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TDP



ISHA

Vishay Dale Thin Film

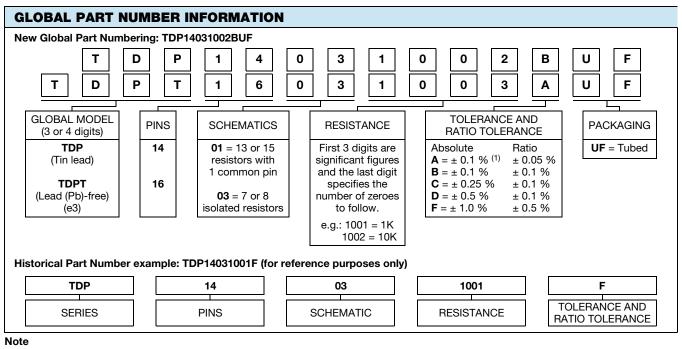


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Vishay Dale Thin Film

MECHANICAL SPECIFICATIONS		
Resistive Element	Passivated nichrome	
Substrate Material	Silicon	
Body	Conformal coated	
Terminals	Copper alloy	
Tin/Lead Option	Sn90	
Lead (Pb)-free Option	100 % matte tin	
Tin/Lead and Lead (Pb)-free Finish	Hot solder dip	



 $^{(1)}\,$ A tolerance on 250 Ω up



Vishay

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