HALOGEN

FREE



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

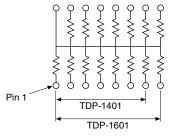


Actual Size

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 $k\Omega$ resistance range. The networks feature ratio tolerance to 0.05 % with a TCR tracking of 5 ppm/°C.

SCHEMATIC

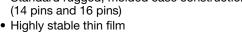
Schematic TDP01



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

FEATURES

· Standard rugged, molded case construction (14 pins and 16 pins)



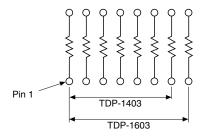
- (500 ppm at +70 °C at 2000 h) Low temperature coefficient (± 25 ppm/°C)
- · Compatible with automatic insertion equipment
- Standard isolated pin one common schematic
- Isolated and bussed schematics
- · Material categorization: For definitions of compliance please see www.vishay.com/doc?99912

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

	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 k Ω	-			
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	ΔR ± 0.05 %	2000 h at +70 °C			
Stability: Ratio	ΔR ± 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	ΔR ± 0.01 %	1 year at +25 °C			
Shelf Life Stability: Ratio	$\Delta R \pm 0.002 \%$	1 year at +25 °C			

Revision: 24-Sep-13 Document Number: 60045

Vishay Dale Thin Film

DIMENSIONS AND IMPRINTING in inches and milling	DIMENSION	INCHES	MILLIMETERS
Δ	DIMENSION	INCHES	WILLINETERS
√ A Part	А	0.755	19.18
	В	0.250	6.35
B TDP14XX MMM	С	0.075	1.91
Pin 1 Vishay Date Code	D	0.100	2.54
Logo	E	0.018	0.46
√ I	F	0.060	1.52
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	G	0.025	0.64
	Н	0.190	4.83
C	J	0.130	3.30
→ D ← "	К	0.320	8.13
M→ -	L	0.310	7.87
	М	0.010	0.25
	А	0.755	19.18
Part	В	0.250	6.35
TDP16XX ZZZZZZ	С	0.025	0.64
Pin 1	D	0.100	2.54
Vishay Date Code Logo	Е	0.018	0.46
<u> </u>	F	0.060	1.52
t _G t	G	0.025	0.64
	Н	0.190	4.83
$\begin{array}{c c} \rightarrow & \\ \hline C & & \\ \end{array}$	J	0.130	3.30
→ D ← E	К	0.320	8.13
	L	0.310	7.87
M→ ←	М	0.010	0.25





Vishay Dale Thin Film

MECHANICAL SPECIFICATIONS			
Resistive Element	Passivated nichrome		
Substrate Material	Alumina		
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		

GLOBAL PART	GLOBAL PART NUMBER INFORMATION						
New Global Part Nun	New Global Part Numbering: TDP14031002BUF						
T	D P	1 4	0 3 1	0 0 2 B	U F		
T D	Р Т	1 6	0 3 1	0 0 3 A	UF		
GLOBAL MODEL (3 or 4 digits)	PINS	SCHEMATICS	RESISTANCE	TOLERANCE AND RATIO TOLERANCE	PACKAGING		
TDP (Tin lead)	14	01 = 13 or 15 resistors with 1 common pin	First 3 digits are significant figures and the last digit		UF = Tubed		
TDPT (Lead (Pb)-free) (e3)	16	03 = 7 or 8 isolated resistors	specifies the number of zeroes to follow.	$C = \pm 0.25 \% \pm 0.1 \%$			
e.g.: 1001 = 1K 1002 = 10K							
Historical Part Number example: TDP14031001F (for reference purposes only)							
TDP		14	03	1001	F		
SERIES		PINS	SCHEMATIC		TOLERANCE AND ATIO TOLERANCE		

Note

 $^{(1)}\,$ A tolerance on 250 Ω up



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 vishay manufacturer:

Other Similar products are found below:

M39006/22-0577H Y00892K49000BR13L VS-12CWQ10FNPBF RER60F2430RC02 M8340109M6801GGD03 VS-MBRB1545CTPBF IKAB100E VSMF4720-GS08 CRCW040210M0FKTDBC CRCW06030000Z0TABC 001789X CRCW0603510RFKTABC CRCW060351R0FKTABC CRCW08051K78FKTABC CRCW08054K70FKTABC CRCW0805510KFKEA CRCW0805680RJNTABC CRCW120612R0FKTABC LVR10R0200FE03 CRCW12063K30FKEAHP 009923A CRCW25120000Z0THBC CS6600552K000B8768 M39003/01-2784 M39006/25-0133 M39006/25-0228 M64W101KB40 M64Z501KB40 CW001R5000JS73 CW0055R000JE12 CW0056K800JB12 CW0106K000JE73 672D826H075EK5C MAL202118471E3 MAL219699001E3 MBA02040C1002FC100 MCRL007035R00JHB00 PTF56100K00QYEK PTN0805H1502BBTR1K RCWL1210R130JNEA RH005220R0FE02 RH005330R0FC02 RH010R0500FC02 132B20103 RH1007R000FJ01 RH2503R500FE01 RH254R220FS03 RH-50-40R2-1%-C02 134D336X9075C6 134D686X0050C6E3