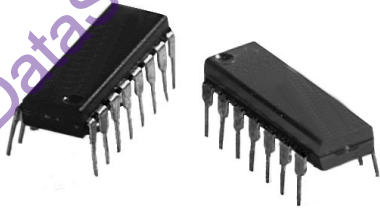


Molded, Dual-In-Line Resistor Networks



Actual Size

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

FEATURES

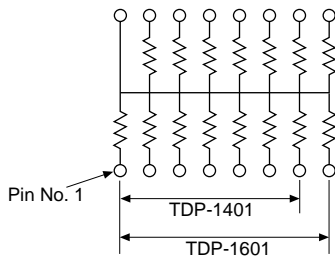
- Standard Rugged, molded case construction (14 and 16 Pin)
- Highly stable thin film
- Low temperature coefficient $\pm 25\text{ppm}/^\circ\text{C}$
- Compatible with automatic insertion equipment
- Standard isolated pin one common schematic

TYPICAL PERFORMANCE

	ABS	TRACKING
TCR	25	5
	ABS	RATIO
TOL	0.1	0.05

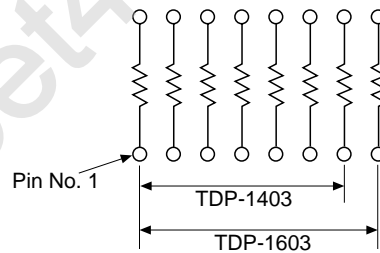
SCHEMATIC

Schematic TDP01



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

Schematic TDP03



Models: TDP1403 and TDP1603
7 or 8 isolated resistors

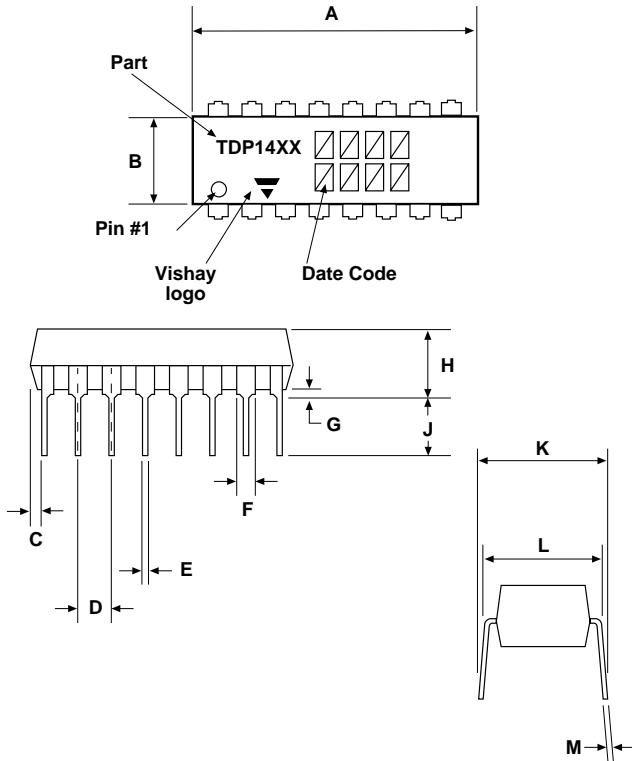
STANDARD ELECTRICAL SPECIFICATIONS

TEST	SPECIFICATIONS		CONDITIONS
SCHEMATIC	TDP01, TDP03		
Resistance Range	100 ohms to 100K ohms		
TCR:	Ratio	$\pm 5\text{ppm}/^\circ\text{C}$	- 55°C to + 125°C
	Absolute	$\pm 25\text{ppm}/^\circ\text{C}$	- 55°C to + 125°C
Tolerance:	Ratio	$\pm 0.05\%$ to $\pm 0.5\%$	+ 25°C
	Absolute	$\pm 0.1\%$	+ 25°C
Power Rating:	Resistor	01 Circuit = 0.05 Watt/resistor 03 Circuit = 0.10 Watt/resistor	at + 25°C
	Package	0.8 watt/package	Max. at + 70°C
Stability:	Absolute	500ppm	2000 hrs. @ + 70°C
	ΔR Ratio	150ppm	2000 hrs. @ + 70°C
Voltage Coefficient	< 1ppm/volt typical		
Working Voltage	100 Volts		
Operating Temperature Range	- 55°C to + 125°C		
Storage Temperature Range	- 55°C to + 150°C		
Noise	< - 30dB		
Thermal EMF	0.08V/°C		
Shelf Life Stability:	Absolute	100ppm	1 year @ + 25°C
	Ratio	20ppm	1 year @ + 25°C

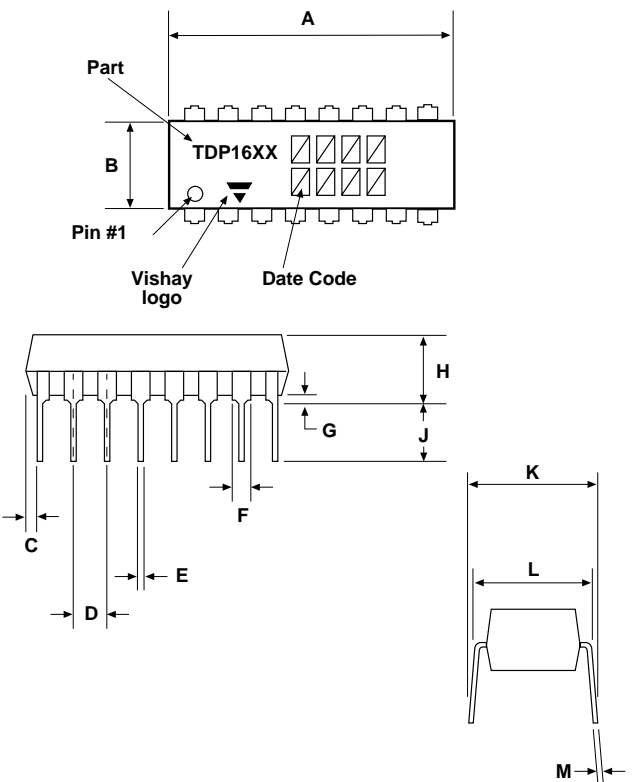
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 • SWEDEN +46.8.594.70590 FAX: +46.8.594.70581 • UK +44 191 514 8237 FAX: +44 1953 457 722 • USA: (610) 407-4800 FAX: (610) 640-9081



DIMENSIONS AND IMPRINTING in inches and millimeters



DIMENSION	INCHES	MILLIMETERS
A	0.755	19.18
B	0.250	6.35
C	0.075	1.91
D	0.100	2.54
E	0.018	0.46
F	0.060	1.52
G	0.025	0.64
H	0.190	4.83
J	0.130	3.30
K	0.320	8.13
L	0.310	7.87
M	0.010	0.25



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THROUGH HOLE



MECHANICAL SPECIFICATIONS	
Resistive Element	Tamelox®
Substrate Material	Silicon or Alumina
Body	Molded Epoxy
Terminals	Copper Alloy #42
Plating	Sn60
Marking Resistance to Solvents	Per MIL-PRF-83401

How to Order

Series	Number of Pins	Schematic	Resistance Value	Tolerance and Ratio Tolerance
TDP	14	01 = 13 or 15 resistors with 1 common pin 03 = 7 or 8 isolated resistors	First 3 digits are significant figures Last Digit specifies the number of zeros to follow. e.g. 1001 = 1K 1002 = 10K	Absolute Ratio * A = ±0.1% ±0.05% B = ±0.1% ±0.1% C = ±0.25% ±0.1% D = ±0.5% ±0.1% F = ±1.0% ±0.5% * Tolerance available on 1KΩ and up only. R1 is reference resistor.
	16			

Example: TDP14031001F: A 14 Pin Molded Dual-In-Line with 7 Resistors with a value 1K ohm 1% Absolute Tolerance, 0.5% Ratio.

THROUGH HOLE