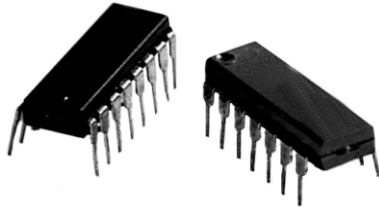


Molded, Dual-In-Line Resistor Networks



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 5 ppm/°C.

FEATURES

- Lead (Pb)-free available
- Standard Rugged, molded case construction (14 and 16 Pin)
- Highly stable thin film (500 ppm at + 70 °C at 2000 hrs.)
- Low temperature coefficient (± 25 ppm/°C)
- Compatible with automatic insertion equipment
- Standard isolated pin one common schematic

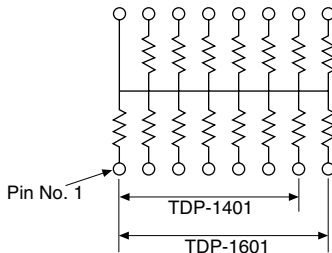


TYPICAL PERFORMANCE

	ABS	TRACKING
TCR	25	5
	ABS	RATIO
TOL	0.1	0.05

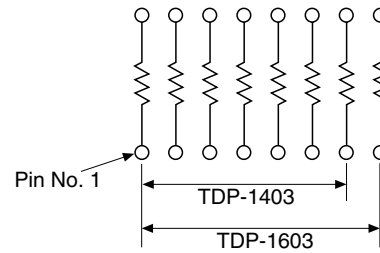
SCHEMATIC

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

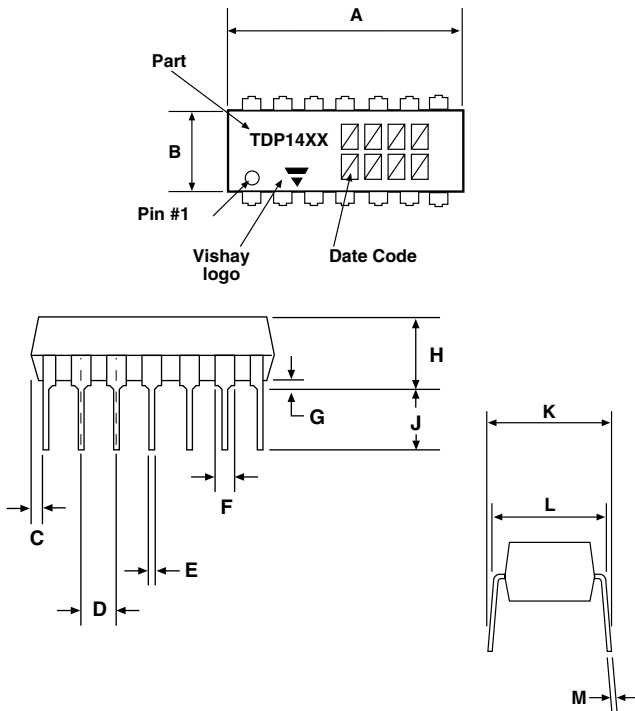
THROUGH HOLE

STANDARD ELECTRICAL SPECIFICATIONS

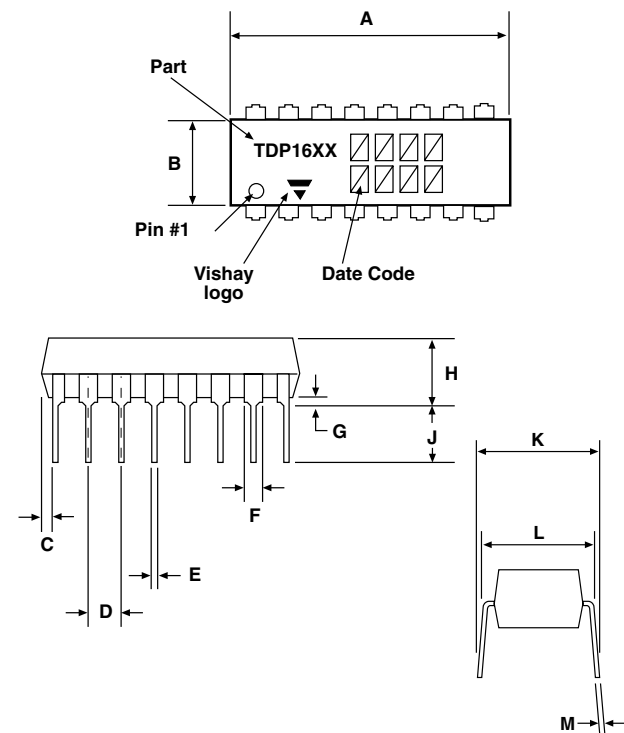
TEST	SPECIFICATIONS	CONDITIONS
SCHEMATIC	TDP01, TDP03	
Resistance Range	100 Ω to 100 k Ω	
TCR:	Ratio	± 5 ppm/°C
	Absolute	± 25 ppm/°C
Tolerance:	Ratio	± 0.05 % to ± 0.5 %
	Absolute	± 0.1 %
Power Rating:	Resistor	01 Circuit = 0.05 W/resistor 03 Circuit = 0.10 W/resistor
	Package	0.8 W/package
Stability:	ΔR Absolute	500 ppm
	ΔR Ratio	150 ppm
Voltage Coefficient	< 1 ppm/Volt typical	
Working Voltage	100 Volts	
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	100 ppm
	Ratio	20 ppm
		1 year at + 25 °C
		1 year at + 25 °C

* Pb containing terminations are not RoHS compliant, exemptions may apply

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
Lead (Pb)-free Option	100 % Sn Matte**
Lead (Pb)-free Finish	Plated

GLOBAL PART NUMBER INFORMATION															
New Global Part Numbering: TDP14031002BUF (preferred part number format)															
	T	D	P	1	4	0	3	1	0	0	2	B	U	F	
	T	D	P	T	1	6	0	3	1	0	0	3	A	U	F
GLOBAL MODEL (3 or 4 digits)	PINS		SCHEMATIC	RESISTANCE			TOLERANCE AND RATIO TOLERANCE		PACKAGING						
TDP (Tin Lead) TDPT (Lead(Pb)-free) (e3)	14 16		01 = 13 or 15 resistors with 1 common pin 03 = 7 or 8 isolated resistors	First 3 digits are significant figures and the last digit specifies the number of zeroes to follow. Example: 1001 = 1K 1002 = 10K			Abs. Tol. Ratio *A = ± 0.1 % ± 0.05 % B = ± 0.1 % ± 0.1 % C = ± 0.25 % ± 0.1 % D = ± 0.5 % ± 0.1 % F = ± 1 % ± 0.5 % * Tol. available on 1 kΩ and up only R1 is reference resistors		UF = TUBED						
Historical Part Number example: TDP14031001F (will continue to be accepted)															
TDP		14		03		1001		F							
SERIES		PINS		SCHEMATIC		RESISTANCE		TOLERANCE AND RATIO TOLERANCE							

THROUGH HOLE



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