

COMPLIANT

Molded, Dual-In-Line Resistor Networks

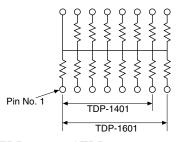


Actual Size

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

SCHEMATIC

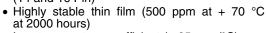
Schematic TDP01

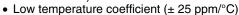


Models: TDP1401 and TDP1601
13 or 15 resistors with one pin common

FEATURES

- Lead (Pb)-free available
- Standard Rugged, molded case construction (14 and 16 Pin)



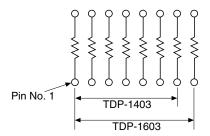


- Compatible with automatic insertion equipment
- Standard isolated pin one common schematic

TYPICAL PERFORMANCE

	ABS	TRACKING	
TCR	25	5	
	ABS	RATIO	
TOL	0.1	0.05	

Schematic TDP03



Models: TDP1403 and TDP1603

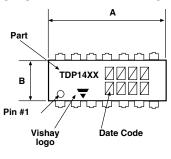
7 or 8 isolated resistors

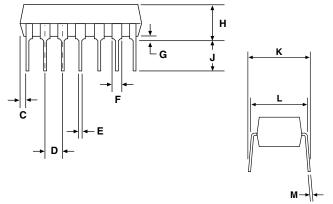
TEST		SPECIFICATIONS	CONDITIONS
SCHEMATIC		TDP01, TDP03	
Resistance Range	e	100 Ω to 100 kΩ	
TOD	Ratio	± 5 ppm/°C	- 55 °C to + 125 °C
TCR:	Absolute	± 25 ppm/°C	- 55 °C to + 125 °C
Talamamaa	Ratio	± 0.05 % to ± 0.5 %	+ 25 °C
Tolerance:	Absolute	± 0.1 %	+ 25 °C
Power Rating:	Resistor	01 Circuit = 0.05 W/resistor 03 Circuit = 0.10 W/resistor	at + 25 °C
	Package	0.8 W/package	Max. at + 70 °C
Stability:	∆R Absolute	500 ppm	2000 h at + 70 °C
	∆R Ratio	150 ppm	2000 h at + 70 °C
Voltage Coefficier	nt	< 1 ppm/Volt typical	
Working Voltage		100 Volts	
Operating Tempe	rature Range	- 55 °C to + 125 °C	
Storage Tempera	ture Range	- 55 °C to + 150 °C	
Noise		< - 30 dB	
Thermal EMF		0.08 μV/°C	
Shelf Life Stability: Absolute Ratio		100 ppm	1 year at + 25 °C
		20 ppm	1 year at + 25 °C

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

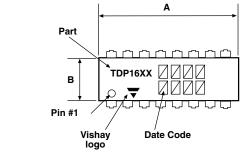


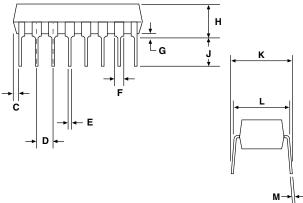
DIMENSIONS AND IMPRINTING in inches and millimeters





DIMENSION	INCHES	ММ
А	0.755	19.18
В	0.250	6.35
С	0.075	1.91
D	0.100	2.54
Е	0.018	0.46
F	0.060	1.52
G	0.025	0.64
Н	0.190	4.83
J	0.130	3.30
К	0.320	8.13
L	0.310	7.87
М	0.010	0.25





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THROUGH HOLE

Molded, Dual-In-Line Resistor Networks



MECHANICAL SPECIFICATIONS			
Resistive Element	Passivated Nichrome		
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)				
TD	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)	SCHEMATIC	RESISTANCE	TOLERANCE AND RATIO TOLERANCE	PACKAGING
TDP 14	01 = 13 or 15	First 3 digits are	Abs. Tol. Ratio	UF = TUBED
(Tin Lead) 16 (Lead(Pb)-free) (e3) Historical Part Number exa	resistors with 1 common pin 03 = 7 or 8 isolated resistors mple: TDP14031001F (common pin)	the number of zeroes to follow. Example: 1001 = 1K 1002 = 10K	*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 d)	
TDP	14	03	1001	F
SERIES	PINS	SCHEMATIC	RESISTANCE	TOLERANCE AND RATIO TOLERANCE

TICH HOLLOGH



Vishay

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