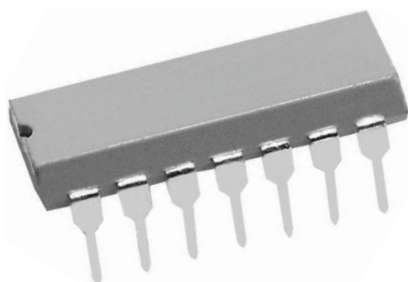


Thick Film Resistor Networks, Dual-In-Line, Molded DIP



FEATURES

- 10 bit, R/2R ladder networks for D/A and A/D converter with bi-polar or CMOS switches
- 0.190" (4.83 mm) maximum seated height
- Rugged, molded case construction
- Thick film resistive elements
- Low temperature coefficient (-55 °C to 125 °C) ± 100 ppm/°C
- Reduces total assembly costs
- Compatible with automatic inserting equipment
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912


RoHS*
Available

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.

STANDARD ELECTRICAL SPECIFICATIONS

GLOBAL MODEL	SCHEMATIC	POWER RATING ELEMENT $P_{70^{\circ}\text{C}}$ W	POWER RATING PACKAGE $P_{70^{\circ}\text{C}}$ W	RESISTANCE RANGE ⁽¹⁾ Ω	TOLERANCE \pm %	TEMPERATURE COEFFICIENT (0 °C to 70 °C) \pm ppm/°C	LINEARITY (0 °C to 70 °C)
T14L	10	0.050	1.6	50 to 1M	2	100	± 1 LSB

Note

⁽¹⁾ 25K, 50K, and 100K are standard, other values available on special order

GLOBAL PART NUMBER INFORMATION

New Global Part Numbering: T14L10100KT (preferred part number format)

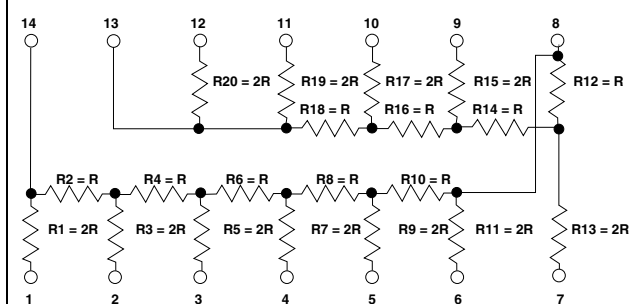
T	1	4	L	1	0	1	0	0	K	T	T
GLOBAL MODEL		SCHEMATIC		RESISTANCE VALUE (R)				TERMINAL FINISH		PACKAGING	
T14L		10		R = Ω K = kΩ M = MΩ 5K00 = 5 kΩ 5K10 = 5.1 kΩ 100K = 100 kΩ Reference schematic if R = 5 kΩ, then 2R = 10 kΩ if R = 100 kΩ, then 2R = 200 kΩ				T = Sn90/Pb10 C = Sn95.5/Ag3.9/Cu0.6		T = Tube	

Historical Part Numbering: T14L10104S10 (will continue to be accepted)

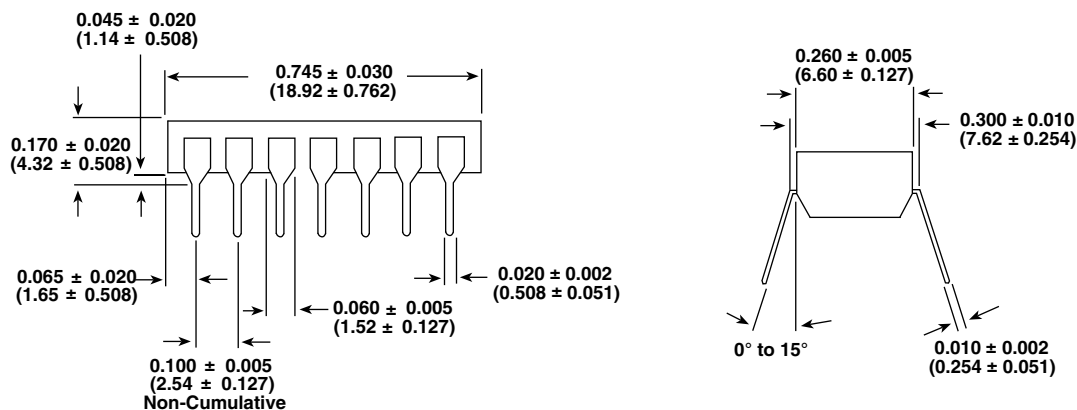
T14L	10	104	S10
HISTORICAL MODEL	NUMBER OF BITS	RESISTANCE VALUE (R)	TERMINAL FINISH

Note

⁽¹⁾ For additional information on packaging, refer to the "Through-Hole Network Packaging" document (www.vishay.com/doc?31542)

SCHEMATIC

RATIO MATCH TOLERANCE

$R1/R2 = 2 \% \pm 1 \%$	$R9/R10 = 2 \% \pm 0.5 \%$
$R1/R3 = 1 \% \pm 1 \%$	$R11/R12 = 2 \% \pm 0.4 \%$
$R1/R4 = 2 \% \pm 1 \%$	$R13/R14 = 2 \% \pm 0.2 \%$
$R1/R5 = 1 \% \pm 1 \%$	$R15/R16 = 2 \% \pm 0.2 \%$
$R1/R6 = 2 \% \pm 1 \%$	$R19/R17 = 1 \% \pm 0.1 \%$
$R1/R7 = 1 \% \pm 1 \%$	$R19/R18 = 2 \% \pm 0.1 \%$
$R1/R8 = 2 \% \pm 1 \%$	

DIMENSIONS in inches (millimeters)




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