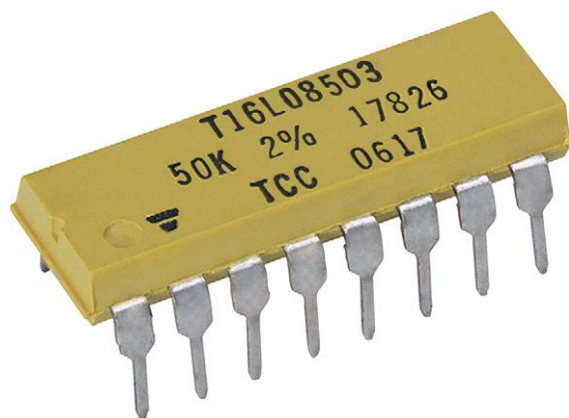


Thick Film Resistor Networks, Dual-In-Line, Molded DIP



FEATURES

- 8 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)
T16L	08 R8	0.050	1.8	50 to 1M	2	100	± 0.5 LSB

Note

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

GLOBAL PART NUMBER INFORMATION

New Global Part Numbering: T16L08100KTT (preferred part number format)

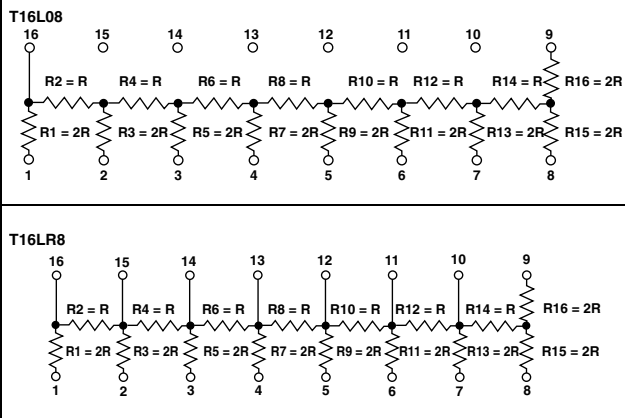
T	1	6	L	0	8	1	0	0	K	T	T
GLOBAL MODEL		SCHEMATIC		RESISTANCE VALUE (R)			TERMINAL FINISH		PACKAGING		
T16L		08 R8		R = Ω K = k Ω M = M Ω 5K00 = 5 k Ω 5K10 = 5.1 k Ω 100K = 100 k Ω Reference schematic if R = 5 k Ω , then 2R = 10 k Ω if R = 100 k Ω , then 2R = 200 k Ω			T = Sn90/Pb10 C = Sn95.5/Ag3.9/Cu0.6		T = tube		

Historical Part Numbering: T16L08104S10 (will continue to be accepted)

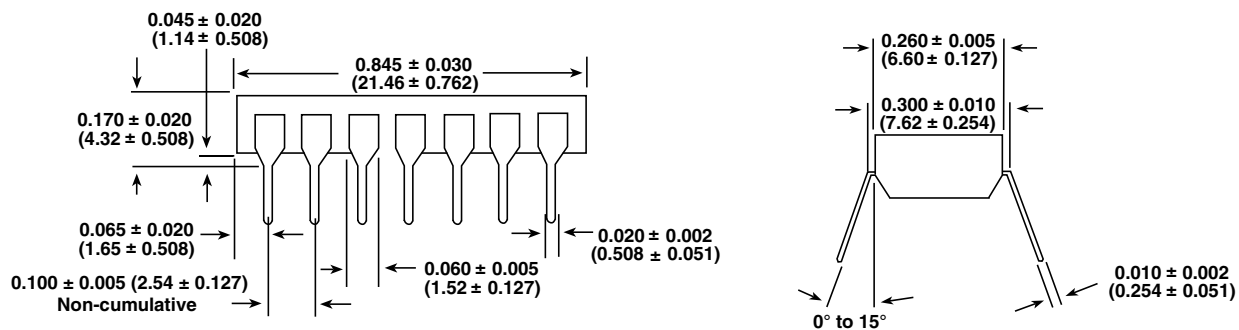
T16L	08	104	S10
HISTORICAL MODEL	NUMBER OF BITS	RESISTANCE VALUE (R)	TERMINAL FINISH

Note

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

SCHEMATICS

RATIO MATCH TOLERANCE

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

DIMENSIONS in inches (millimeters)




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