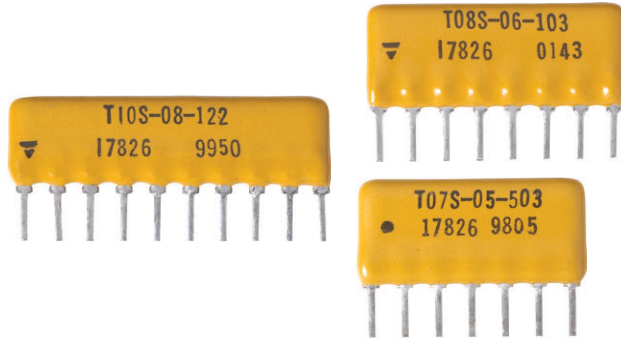


## Thick Film Resistor Networks, Single-In-Line, Conformal Coated SIP



### FEATURES

- 4 bit to 8 bit, R/2R ladder networks for D/A and A/D converter with bi-polar or CMOS switches
- Reduces total assembly costs
- Resistor element protected by tough epoxy conformal coating
- Thick film resistive elements
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



Available


**RoHS\***  
 Available  
**HALOGEN FREE**

### 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 / PIN NO.	BITS	POWER RATING ELEMENT $P_{70^\circ\text{C}}$ W	RESISTANCE RANGE (1) $\Omega$	TOLERANCE $\pm \%$	TEMPERATURE COEFFICIENT (-55 °C to 125 °C) $\pm \text{ppm}/^\circ\text{C}$	LINEARITY (-55 °C to 125 °C) $\pm \text{LSB}$
T06S	04	0.050	50 to 1M	2	100	$\pm 0.5 \text{ LSB}$
T07S	05					
T08S	06					
T09S	07					
T10S	08					

### Note

(1) 5K, 10K, 25K, 50K, and 100K are standard, other values available on special order

### GLOBAL PART NUMBER INFORMATION

New Global Part Numbering: T10S08100KRB (preferred part number format)

T 1 0 S 0 8 1 0 0 K R B

GLOBAL MODEL	NUMBER OF BITS	RESISTANCE VALUE (R)	TERMINAL FINISH	PACKAGING
<b>T06S</b> = 6 pins <b>T07S</b> = 7 pins <b>T08S</b> = 8 pins <b>T09S</b> = 9 pins <b>T10S</b> = 10 pins	<b>04</b> = 4 bits (6 pins) <b>05</b> = 5 bits (7 pins) <b>06</b> = 6 bits (8 pins) <b>07</b> = 7 bits (9 pins) <b>08</b> = 8 bits (10 pins)	$R = \Omega$ $K = \text{k}\Omega$ $M = \text{M}\Omega$ <b>5K00</b> = 5 k $\Omega$ <b>5K10</b> = 5.1 k $\Omega$ <b>100K</b> = 100 k $\Omega$ Reference schematic if R = 5 k $\Omega$ , then 2R = 10 k $\Omega$ if R = 100 k $\Omega$ , then 2R = 200 k $\Omega$	<b>R</b> = Sn60/Pb40 <b>C</b> = Sn95.5/Ag3.9/Cu0.6	<b>B</b> = bulk

Historical Part Numbering: T10S08104 (will continue to be accepted)

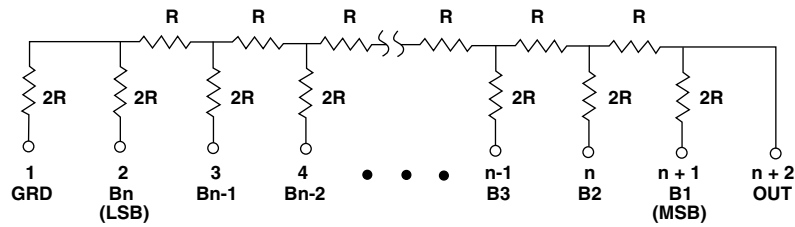
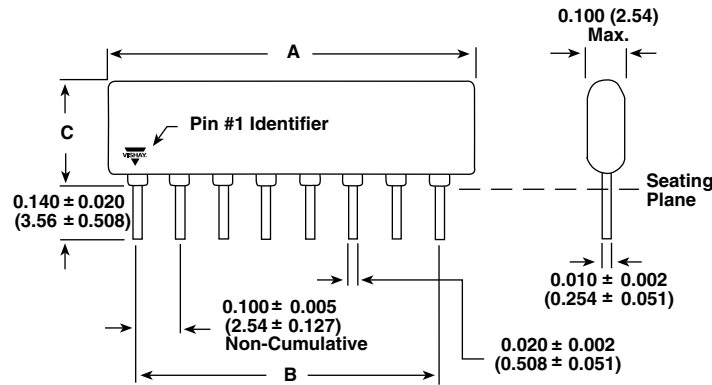
T10S	08	104	
HISTORICAL MODEL	NUMBER OF BITS	RESISTANCE VALUE (R)	TERMINAL FINISH

### Note

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

**SCHEMATIC**

n Bits:  
n = 4 thru 8


**DIMENSIONS** in inches (millimeters)


NUMBER OF PINS	A (Max.)	B ± 0.005 (0.127)	C (Max.)
6	0.590 (14.99)	0.500 (12.70)	0.350 (8.89)
7	0.690 (17.53)	0.600 (15.24)	0.350 (8.89)
8	0.790 (20.07)	0.700 (17.78)	0.350 (8.89)
9	0.890 (22.61)	0.800 (20.32)	0.350 (8.89)
10	0.990 (25.15)	0.900 (22.86)	0.350 (8.89)



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