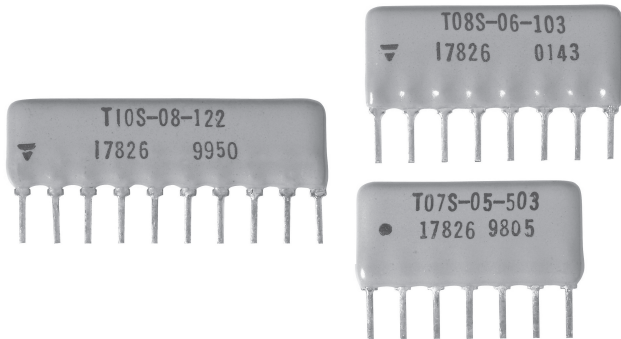


Thick Film Resistor Networks, Single-In-Line, Conformal Coated SIP



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
- Compliant to RoHS directive 2002/95/EC
- Halogen-free according to IEC 61249-2-21 definition



RoHS*
COMPLIANT
HALOGEN
FREE

| STANDARD ELECTRICAL SPECIFICATIONS | | | | | | |
|------------------------------------|------|--|---|----------------------|---|----------------------------------|
| GLOBAL MODEL/ PIN NO. | BITS | POWER RATING ELEMENT $P_{70^{\circ}\text{C}}$ W | STANDARD RESISTANCE VALUES ⁽¹⁾ Ω | TOLERANCE \pm % | TEMPERATURE COEFFICIENT (- 55 °C to + 125 °C) \pm ppm/°C | LINEARITY (- 55 °C to 125 °C) |
| T06S | 04 | 0.050 | 5K, 10K, 25K, 50K, 100K | 2 | 100 | \pm 0.5 LSB |
| T07S | 05 | | | | | |
| T08S | 06 | | | | | |
| T09S | 07 | | | | | |
| T10S | 08 | | | | | |

Note

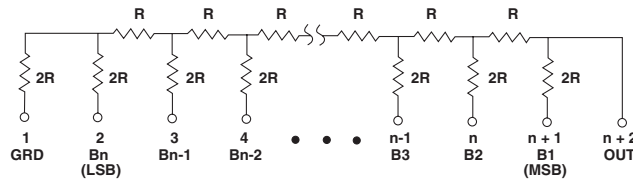
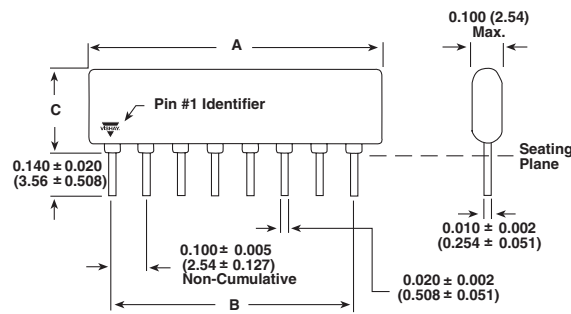
⁽¹⁾ Other values available on special order

| 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 |
| T06S = 6 pins T07S = 7 pins T08S = 8 pins T09S = 9 pins T10S = 10 pins | 04 = 4 bits (6 pins) 05 = 5 bits (7 pins) 06 = 6 bits (8 pins) 07 = 7 bits (9 pins) 08 = 8 bits (10 pins) | K = k 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 | R = Sn60/Pb40 C = Sn95.5/Ag3.9/Cu0.6 | B = Bulk |
| Historical Part Numbering: T10S08104 (will continue to be accepted) | | | | |
| T10S | 08 | 104 | | |
| HISTORICAL MODEL | NUMBER OF BITS | RESISTANCE VALUE [R] | TERMINAL FINISH | |

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

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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