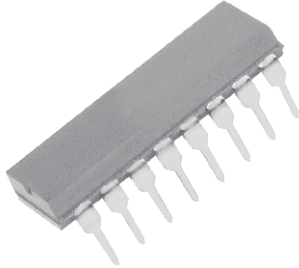


Dual-In-Line, 8 Bit R/2R Ladder Networks



APPLICATIONS

8 Bit, R/2R Ladder networks for D/A and A/D converter with bi-polar or CMOS switches

ELECTRICAL SPECIFICATIONS

Ladder Network Accuracy: $\pm 1/2$ LSB from 0 °C to + 70 °C.

Ladder Network Resistance Tolerance: $\pm 2\%$.

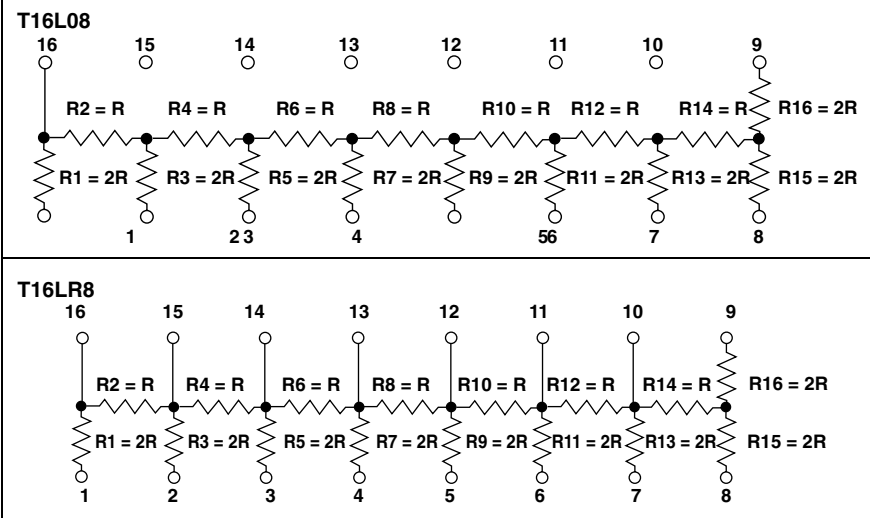
Temperature Coefficient of Resistance: ± 100 PPM/°C.

Operating Temperature Range: 0 °C to + 70 °C.

Power Dissipation Rating at + 70 °C Ambient: 50 mW for individual resistor and 1.8 watts total package rating.

Standard Resistance Values (R): 25 kilohms, 50 kilohms, 100 kilohms.

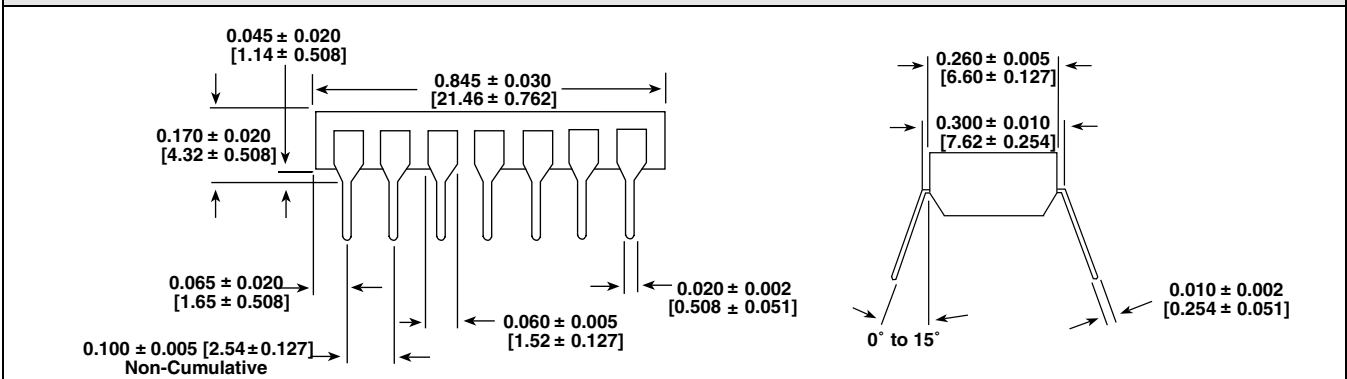
SCHEMATICS



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 = $2 \pm 0.2\%$.

DIMENSIONAL CONFIGURATIONS in inches [millimeters]



HOW TO ORDER

T16L08 or T16LR8
MODEL

104
RESISTANCE VALUE (Ohms)

First two digits are significant, third digit signifies number of zeros to follow.

EXAMPLE:
104 = R = 100 kilohms.
REFERENCE:
2R = 200 kilohms.

e3
LEAD TERMINATION

e3 = SnAg
95/5



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