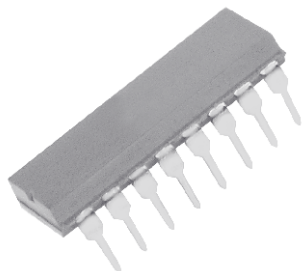


Dual-In-Line, 8 Bit

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: ± 2 %.

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

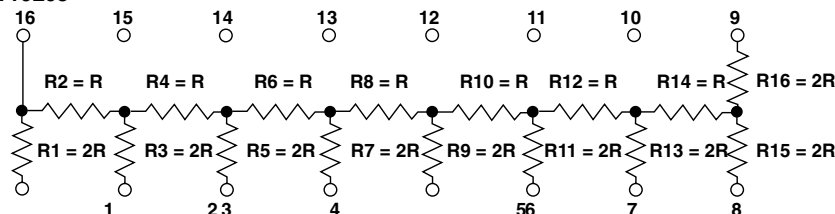
Operating Temperature Range: 0 °C to + 70 °C.

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

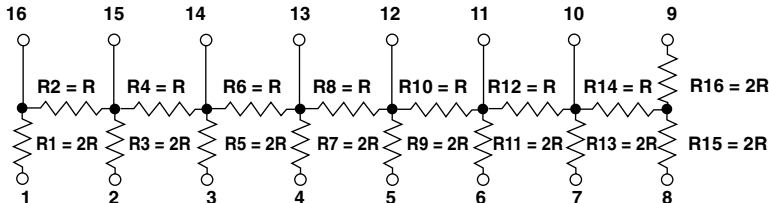
Standard Resistance Values (R): 25 kilohms, 50 kilohms, 100 kilohms.

SCHEMATICS

T16L08



T16LR8



RATIO MATCH TOLERANCE

$$R1/R2 = 2 \pm 1 \%$$

$$R1/R3 = 1 \pm 1 \%$$

$$R1/R4 = 2 \pm 1 \%$$

$$R1/R5 = 1 \pm 1 \%$$

$$R1/R6 = 2 \pm 1 \%$$

$$R1/R7 = 1 \pm 1 \%$$

$$R1/R8 = 2 \pm 1 \%$$

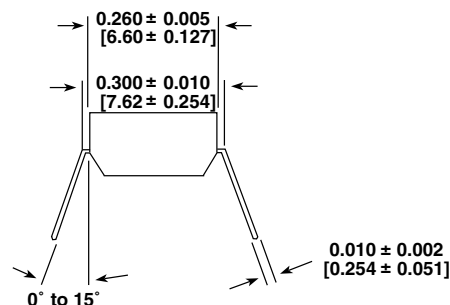
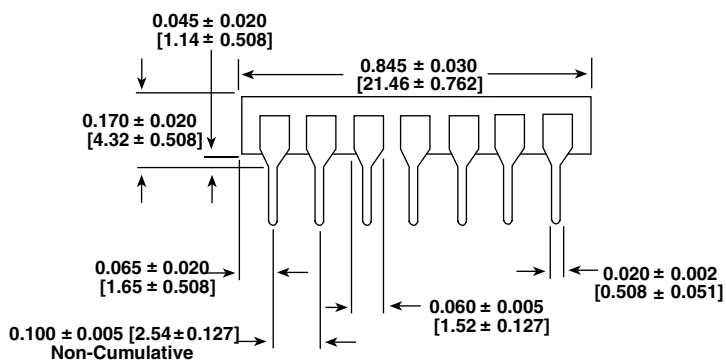
$$R9/R10 = 2 \pm 0.5 \%$$

$$R11/R12 = 2 \pm 0.4 \%$$

$$R15/R13 = 1 \pm 0.2 \%$$

$$R15/R14 = 2 \pm 0.2 \%$$

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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