



## **Dual-In-Line, 10 Bit**

R/2R Ladder Networks



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



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

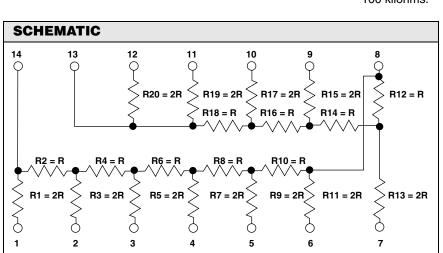
Ladder Network Resistance Tolerance: ± 2 %.

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 1.6 watts total package rating.

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



## **RATIO MATCH TOLERANCE**

 $R1/R2 = 2 \pm 1 \%$ .  $R1/R3 = 1 \pm 1 \%$ .  $R1/R4 = 2 \pm 1 \%$ .

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

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

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

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

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

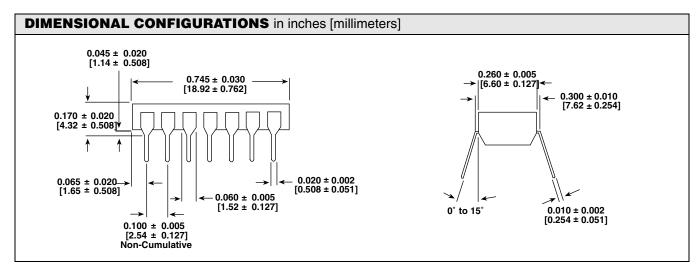
 $R9/R10 = 2 \pm 0.5 \%$ .

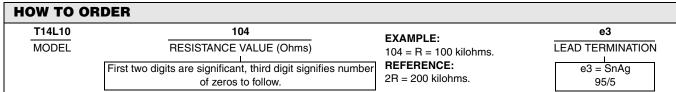
 $R11/R12 = 2 \pm 0.4 \%$ .  $R13/R14 = 2 \pm 0.2 \%$ .

 $R15/R16 = 2 \pm 0.2 \%$ .

 $R19/R17 = 1 \pm 0.1 \%$ .

 $R19/R18 = 2 \pm 0.1 \%$ .





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