## Models T16L08 and T16LR8

### Vishay Techno



# 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:  $\pm 100$ PPM/°C. Operating Temperature Range: 0°C to + 70°C. Power Dissipation Rating at + 70°C Ambient: 50mW for individual resistor and 1.8 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 ± 1%.
R1/R4 = 2 ± 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%.
$R15/R14 = 2 \pm 0.2\%$ .



#### HOW TO ORDER

T16L08 or T16LR8

MODEL

104 RESISTANCE VALUE (Ohms)

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