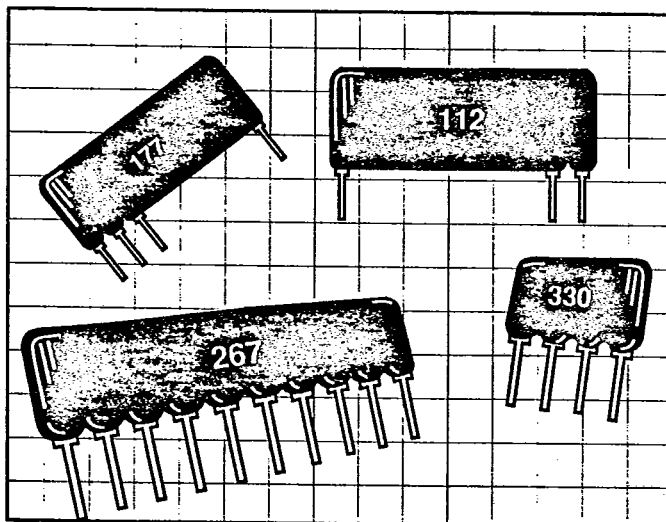


VISHAY

T-62-05

Accutrack Thin Film Standard SIP Networks



Models: 112, 177, 267, 330

- Off-the-Shelf Availability
- Low Cost
- Wide Variety of Applications
- Small Size (SIP)
- Standard Designs - No NRE

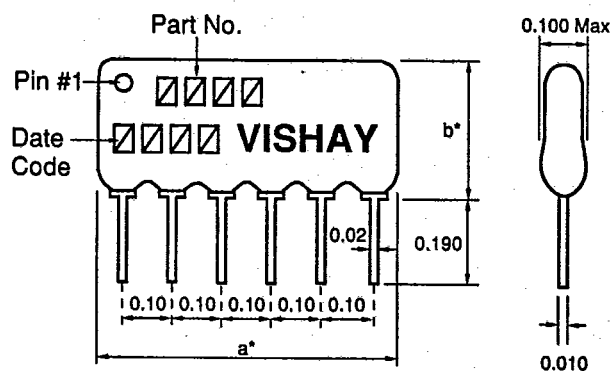
VISHAY Accutrack Thin Film resistor networks are designed to be used in analog circuits in conjunction with operational amplifiers. Engineers can use these circuits to achieve an infinite number of very low noise and high stability circuits for industrial, medical and scientific instrumentation.

This family of standard resistor networks will continually be expanded with new and innovative designs, and VISHAY stocks most designs in house for off-the-shelf convenience. However, if you can not find the standard network you need, call Applications Engineering at 215-644-1300, as we may be able to fulfill your requirements with a semi-custom "match" for a quick delivery.

For standard networks with tighter specifications, or for custom networks, contact Applications Engineering at the above number. For a quick review of typical applications, request Accutrack's Application Notes.

- Low TCR < 10 ppm
- Low Noise -40 dB
- Low Thermal EMF < 0.1 μ V/ $^{\circ}$ C
- Excellent Tracking* < 2 ppm/ $^{\circ}$ C
- Low Capacitance < 0.1 pF/PIN
- High Stability < 0.01%/year

FIGURE 1 MECHANICAL SPECIFICATIONS



a*, b*: length and height dimensions for each model on reverse side.

All Dimensions in Inches

* On part numbers 112 and 177 tracking is less than 5 ppm/ $^{\circ}$ C

VISHAY Resistive Systems Group of VISHAY Intertechnology Inc.

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TABLE 1 GENERAL SPECIFICATIONS

Tolerances	Temperature Coefficient At 0°C - 70°C	Noise	Voltage Coefficient	Thermal EMF
Absolute: 0.1% Ratio: 0.02%	Absolute: 10 ppm Ratio: 2 ppm	-40dB	0.002 ppm/V	0.1 μ V/°C

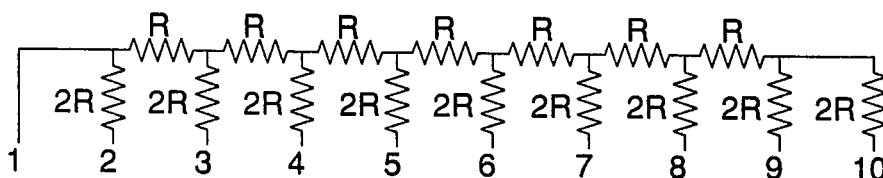
FIGURE 2 8 BIT R/2R LADDER NETWORK

R = 10K



Actual Size

R1 = 10K: PN 267



a = Total Length = 1.016" Max.
b = Seated Height = 0.260" Max.

FIGURE 3 RATIO DIVIDER 10:1 & 100:1

$$R1 + R2 + R3 = 100K$$

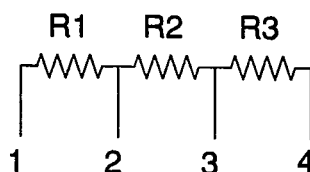
$$\frac{R1 + R2 + R3}{R3} = 100$$

$$\frac{R1 + R2 + R3}{R2 + R3} = 10$$



Actual Size

R1 + R2 + R3 = 100K: PN 330



a = Total Length = 0.416" Max.
b = Seated Height = 0.260" Max.

FIGURE 4 RATIO DIVIDER 100:1

$$R1 + R2 = 10M$$

$$\frac{R1 + R2}{R1} = 100$$



Actual Size

R1 + R2 = 10M: PN 177

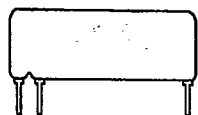


a = Total Length = 0.916" Max.
b = Seated Height = 0.410" Max.

FIGURE 5 RATIO DIVIDER 100:1

$$R1 + R2 = 10M$$

$$\frac{R1 + R2}{R1} = 100$$



Actual Size

R1 + R2 = 10M: PN 112



a = Total Length = 0.916" Max.
b = Seated Height = 0.390" Max.

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