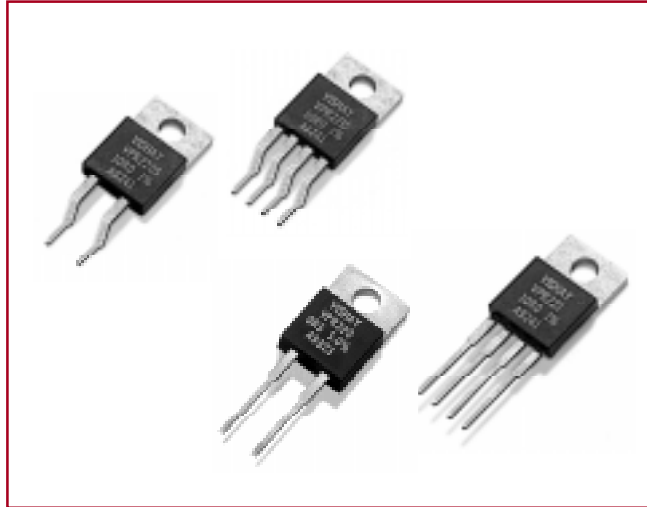




VISHAY MODELS VPR220 AND VPR221

Precision Foil Power Resistors in TO 220 Configuration



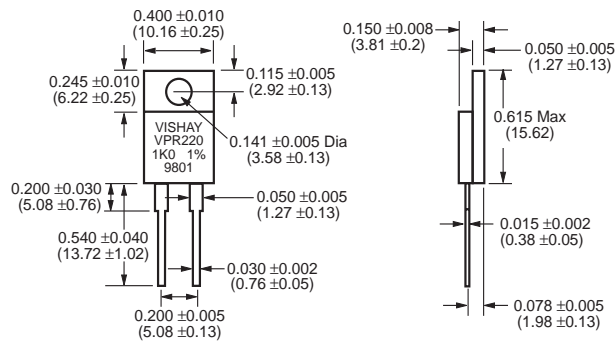
Models VPR220 AND VPR221, made from Vishay Bulk Metal® foil, offer low TCR, high stability, tight tolerance and fast response time in a small, molded resistor. Model VPR220 is a 2 lead device. Model VPR221 is a 4 lead Kelvin connected device. The 4 lead version is highly recommended for precision applications requiring ohmic values of 100R or less.

FEATURES

- Power: 8 watts chassis mounted (per MIL-R-39009)
- Load Life Stability: $\pm 0.05\%$ maximum ΔR at rated power and temperature for 2,000 hours
- Temperature Coefficient of Resistance: to ± 5 ppm/ $^{\circ}C$
- Resistance Range: 0.5 to 10K Ω
- Tolerance: To $\pm 0.01\%$
- Low Thermal EMF: 0.15 $\mu V/^{\circ}C$ maximum (lead effect)
- Non-Inductive Construction
- Heat sink is Isolated

THROUGH HOLE

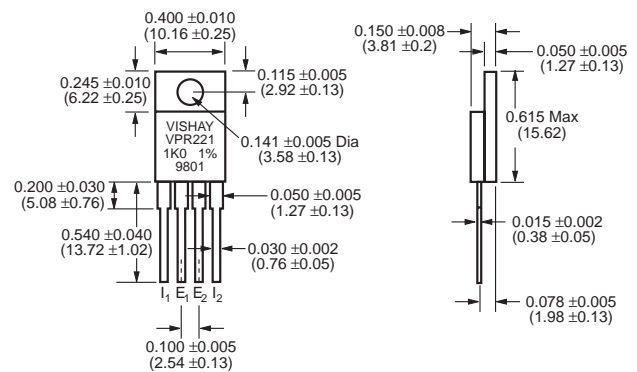
FIGURE 1 - VPR220 DIMENSIONS



Resistance Range (Ω)	Tightest Resistance Tolerance	TCR*
50 to 10K	$\pm 0.01\%$	± 5 ppm/ $^{\circ}C$
25 to <50	$\pm 0.02\%$	± 7 ppm/ $^{\circ}C$
10 to <25	$\pm 0.05\%$	± 10 ppm/ $^{\circ}C$
5 to <10	$\pm 0.1\%$	± 13 ppm/ $^{\circ}C$

Weight = 1 gm Max. * Maximum specifications. Lower values available but not recommended due to high TCR.

FIGURE 2 - VPR221 DIMENSIONS



Resistance Range (Ω)	Tightest Resistance Tolerance	TCR*
10 to 500	$\pm 0.01\%$	± 5 ppm/ $^{\circ}C$
1 to <10	$\pm 0.02\%$	± 5 ppm/ $^{\circ}C$
0.5 to <1	$\pm 0.05\%$	± 5 ppm/ $^{\circ}C$

Weight = 1.2 gms Max. * Maximum specifications. Higher values available. 0.1 Ohms Available soon.

