Ultra High Precision, Z-Foil Audio Resistor Minimizes Noise and Distortion in the Signal Path

with TCR of ±0.05 ppm/°C, Tolerance to ±0.005% and High Linearity or Low Voltage Coefficient of Resistance (VCR) of 0.1 ppm/V

FEATURES

- Temperature coefficient of resistance (TCR):
  ±0.05 ppm/°C typical (0°C to +60°C, +25°C ref.)
  ±0.2 ppm/°C typical (0°C to +125°C, +25°C ref.)
- Rated power: to 0.4 W at +70°C
- Resistance tolerance: to ±0.01%
- Load life stability: to ±0.005% at 70°C, 2000 h at rated power
- Resistance range: 10 Ω to 100 kΩ
- "Naked Z-Foil resistor" design without molding or encapsulation adds an additional dimension for reducing signal distortion and increasing clarity in signal processing.
- VFR Foil resistors are not restricted to standard values; specific "as-required" values can be supplied (e.g., 1K2345 vs 1K)



Pb-free Available

RoHS* COMPLIANT

Resistance Versus TCR (–55°C to +125°C, +25°C Ref.)		
RESISTANCE VALUE (Ω)	TYPICAL TCR AND MAXIMUM SPREAD (ppm/°C)	TIGHTEST TOLERANCE (%)
100 to <100K	±0.2±1.8	0.01
50 to <100	±0.2±2.8	0.01
10 to <50	±0.2±3.8	0.02

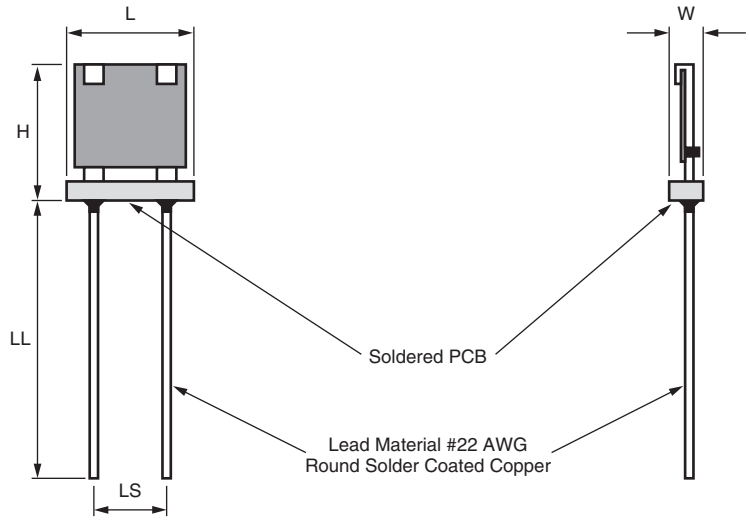
Specifications					
RESISTANCE RANGE (Ω)	MAXIMUM WORKING VOLTAGE	AMBIENT POWER RATING		DIMENSIONS	
		at +70°C	at +125°C	INCHES	MILLIMETER
10 to 100K	200	0.4 W	0.2 W	W: 0.080 max. L: 0.250 max. H: 0.310 max. LL: 1.000±0.125 LS[(1)]: 0.150±0.005	W: 2.03 max. L: 6.35 max. H: 7.87 max. LL: 25.4±3.18 LS: 3.81±0.13

Note

(1) An additional lead space option is available: 0.200" (5.08 mm). For these specifications - please specify VARJ when placing an order.

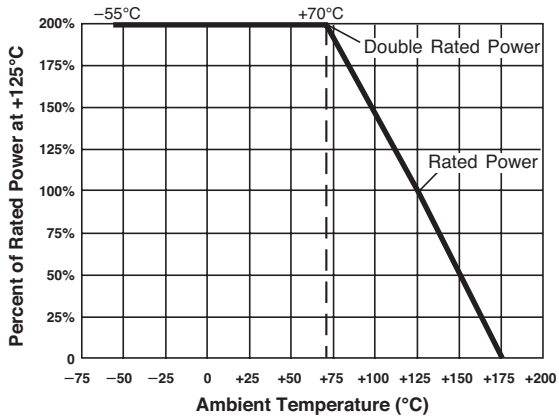
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Standard Dimensions



This product is fragileand may be damaged if mishandled. VPG assumes no responsibility fordamage caused by improper handling.

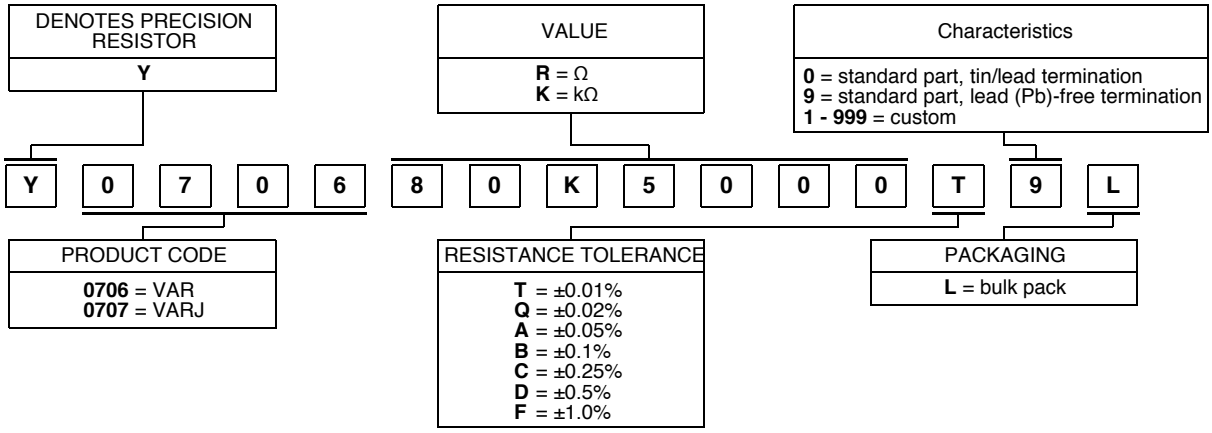
Power Derating Curve



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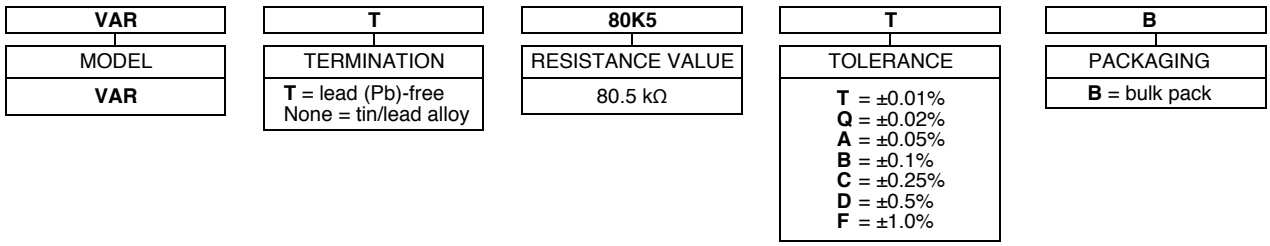
Global Part Number Information[1]

NEW GLOBAL PART NUMBER: Y070680K5000T9L (preferred part number format)



FOR EXAMPLE: ABOVE GLOBAL ORDER Y0706 80K5000 T 9 L:
TYPE: VAR
VALUE: 80.5 kΩ
ABSOLUTE TOLERANCE: ±0.01%
TERMINATION: lead (Pb)-free
PACKAGING: bulk pack

HISTORICAL PART NUMBER: VAR T 80K5 T B (will continue to be used)



Note
[1] For non-standard requests, please contact application engineering.

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