



# AHV50 High Voltage Resistor

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TSEC manufacture a range of standard high voltage resistors which cover a range of resistances over a selection of maximum operating voltages. Applications include snubber and high voltage resistors in power supply, medical and military products.

## Summary

High reliability thick film technology.  
Maximum voltage 30KV (epoxy)  
Maximum power dissipation 12.5W (@70 C)  
Radial and axial configurations.  
Conformal epoxy coat available

## Mechanical Layout

Axial and radial designs.

Overall dimensions 51.8mm x 26.4mm (max)

Refer to AHV Packages document for package detail.

## Electrical Specification

	Min	Nom	Max
Typical resistor values (Ohms)	10K ±20% @100V		1G ±1% @100V
Maximum voltage	19kV free air		30kV epoxy
Maximum power dissipation			12.5W @ 70°C
TCR	±50ppm /°C		Optional
	±100ppm /°C		Optional
	±300ppm /°C		Standard
VCR	<2ppm / V *1		
Derating	Linearly from rated dissipation @70°C to zero @ 125°C		
Load stability	<0.5% 1000hrs @ rated power dissipation		
Operational temperature range	- 55°C		125°C

\* 1 Application specific and may vary with how product is used

Custom resistor solutions are available upon request.

TSEC reserves the right to change specifications without the explicit need to notify customers.

# Ordering Information

PREFIX	CONFIGURATION	RESISTANCE	TOLERANCE	TCR RANGE
AHV50	AE - Axial epoxy AS - Axial silicone  RE - Radial epoxy RS - Radial silicone  S - No wires silicone	X X X Nominal resistance Ohms KOHms Mohms	F $\pm 1\%$ G $\pm 2\%$ J $\pm 5\%$ K $\pm 10\%$ M $\pm 20\%$	O - Optional S - Standard