

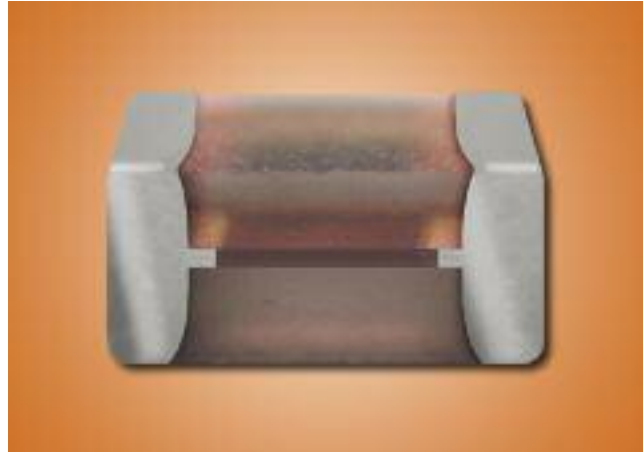
ATC HVR Series Resistors

Features:

- EIA 0402 Case Size
- Power Rating: 125 mW
- Operating Temperature: -40°C to +125°C
- 100% Laser Trimming for Tight Tolerances

ATC // AVX Thin Film Technologies is pleased to introduce the HVR Series next generation of surface mount High Value Resistors. This product was designed with our proprietary Glass Sandwich Flexiterm® Technology, (GSFT). The Flexiterm® is a surface mountable automotive qualified termination that adds an extra margin against damage due to flexure during installation.

The HVR Series has been designed with high quality selected materials that yield excellent performance. This product is ideal for use in applications requiring surface mountable small outline EIA resistors.



Applications:

- Multi Chip Module (MCM)
- Bias Networks
- Test and Measurement Equipment
- Aerospace
- Medical
- Automotive

Specifications

| Resistor | Detail |
|-----------------------------|-------------------------------|
| Outline | EIA 0402 |
| Package | Glass wafer sandwich |
| Maximum Voltage | 1 KV |
| Resistance Value Range | From 2.2 MΩ to 20 MΩ |
| Termination | Flexiterm® (Ag/Epoxy), plated |
| Power Rating | 125 mW |
| Operating Temperature Range | -40°C to +125°C |
| Tolerances | 1%, 5% |



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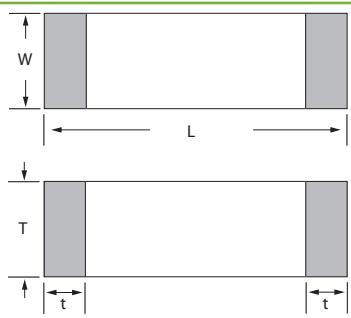
ATC # 001-1110
Rev A, 5/12

ATC HVR SERIES RESISTIVE PRODUCTS

Resistor Material Properties

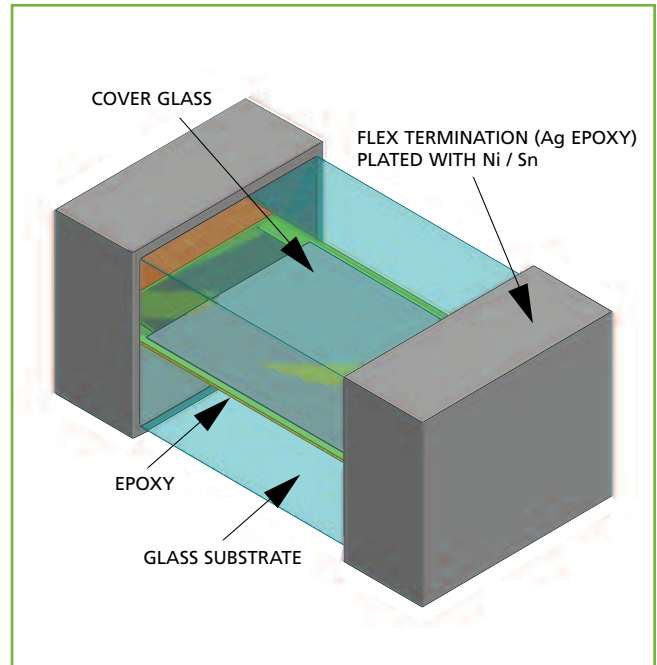
| Resistor Material (SiCr): Properties | |
|--------------------------------------|------------|
| Sheet Resistance (Ohms per Square) | TCR ppm/°C |
| 300 to 1300 | ±50, ±100 |

Mechanical Dimensions



| Size (EIA) | Length (L) | Width (W) | Thickness (T) | Terminal (t) |
|------------|----------------------------|----------------------------|----------------------------|----------------------------|
| 0402 | .039 ±.004 (1.00 ±0.10) | .020 ±.004 (0.50 ±0.10) | .020 ±.004 (0.50 ±0.10) | .010 ±.006 (0.25 ±0.15) |

inches (mm)



ATC Part Number Code

| | ATC HVR L 220 4 F T D T |
|---|---|
| Series | Packaging: T = Tape & Reel |
| Case Size | Temperature Coefficient of Resistance (TCR - ppm/°C) D = ±50, E = ±100 |
| Resistance Value (Ω) 3 significant digits R = decimal point Multiplier | Termination: T = NiSn Plated Tolerance F = 1%, J = 5% |

The above part number refers to a HVR Series (case size L), 2.2 M-Ohms, F tolerance (1%), NiSn Plated, with a TCR of ±50 ppm/°C, with Tape and Reel Packaging.

ATC accepts orders for our parts using designations *with* or *without* the "ATC" prefix. Both methods of defining the part number are equivalent, i.e., part numbers referenced with the "ATC" prefix are interchangeable to parts referenced without the "ATC" prefix. Customers are free to use either in specifying or procuring parts from American Technical Ceramics.

For additional information and catalogs contact your ATC representative or call direct at +1-631-622-4700.
Consult factory for additional performance data.

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