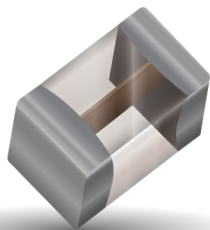


# HR Series

## High Value Resistors



The HR Series is the next generation of surface mount High Value Resistors. This product was designed with our proprietary Glass Sandwich FLEXITERM® Technology. The FLEXITERM® is a surface mountable automotive and medically qualified termination that adds an extra margin against damage due to flexure during installation. The HR Series has been designed with high quality selected materials that yield excellent performance in a small size. This product is ideal for use in applications requiring surface mountable small outline EIA resistors.

### FEATURES

- EIA 0201 & 0402 Size
- Power Rating: 125 mW
- Low Current Consumption
- High Voltage
- Operating Temperature  
-40°C to +125°C

### APPLICATIONS

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

### HOW TO ORDER

HR02	A	5R1	D	Z	TR
<b>Size</b>	<b>TCR</b>	<b>Resistance (Ohms)</b>	<b>Tolerance</b>	<b>Termination</b>	<b>Packaging</b>
HR02 = 0402 HR01 = 0201	A = ±100 ppm/°C B = ±50 ppm/°C C = ±250 ppm/°C D = ±25 ppm/°C E = ±200 ppm/°C	1R1 = 1.1 Ω 100 = 10 Ω 101 = 100 Ω 102 = 1,000 Ω 103 = 10,000 Ω 104 = 100,000 Ω 105 = 1,000,000 Ω 106 = 10,000,000 Ω	B = ±0.1% D = 0.5% F = 1% J = 5%	7 = Gold (0201 only) Z = Flexiterm	TR = Tape & Reel W = Waffle Pack

### MECHANICAL DIMENSIONS mm (inches)

	<b>Length (L)</b>	1.00±0.10 (0.039±0.004)
	<b>Width (W)</b>	0.50±0.10 (0.020±0.004)
	<b>Thickness (T)</b>	0.50±0.10 (0.020±0.004)
	<b>Terminal (t)</b>	0.25±0.15 (0.010±0.006)

### 0402 SPECIFICATIONS

Resistor	Detail
Outline	EIA 0402
Package	Glass wafer sandwich
Maximum Voltage	1 KV
Resistance Value Range	From 2.2 MOhms to 30 MOhms
Termination	FLEXITERM® (Ag/Epoxy), plated
Power Rating	125 mW
Operating Temperature Range	-40°C to +125°C
Tolerances	0.1%, 0.5%, 1%, 5%

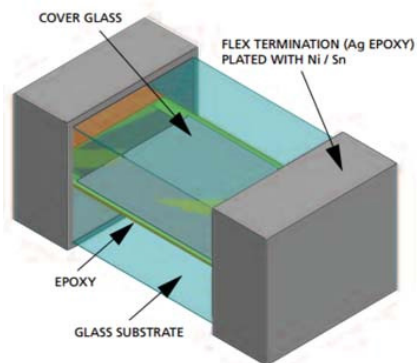
### MECHANICAL DIMENSIONS mm (inches)

	<b>Length (L)</b>	0.60±0.050 (0.024±0.010)
	<b>Width (W)</b>	0.325±0.050 (0.024±0.010)
	<b>Thickness (T)</b>	.250±0.127 (0.010±0.005)
	<b>Terminal (t)</b>	0.150±0.050 (0.006±0.010)

### 0201 SPECIFICATIONS (PRELIMINARY)

Resistor	Detail
Outline	EIA 0201
Package	Glass wafer sandwich
Maximum Voltage	1 KV
Resistance Value Range	From 10 Ohms to 5 MOhms
Termination	FLEXITERM® (Ag/Epoxy), plated
Power Rating	125 mW
Operating Temperature Range	-40°C to +125°C
Tolerances	0.1%, 0.5%, 1%, 5%

### RESISTOR MATERIAL (SiCr) PROPERTIES



Sheet Resistance (Ohms per Square)	TCR ppm/°C
300 to 1300	±25, ±50, ±100, ±250