

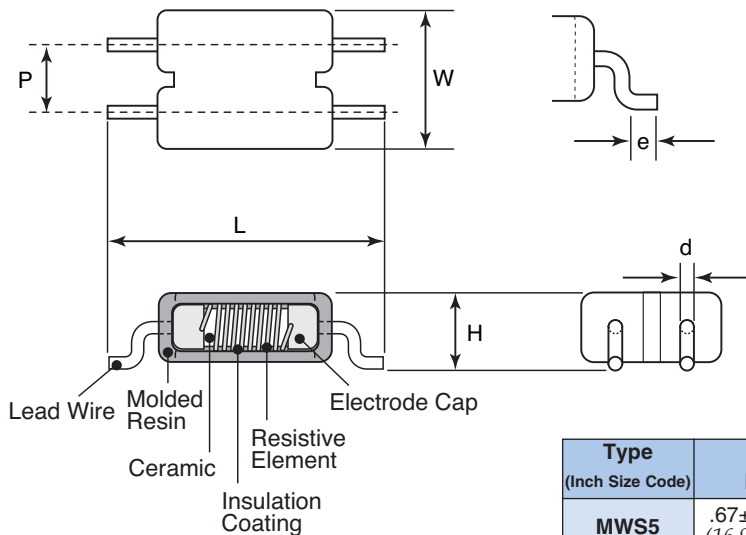
NEW



features

- Flame retardant coating (UL94 V-0)
- It has excellent pulse resistance and is suitable as a surface mount component for precharge resistance, snubber resistance, and damping resistance
- AEC-Q200 tested
- Products with EU RoHS requirements

dimensions and construction



Type (Inch Size Code)	Dimensions inches (mm)					
	L	W	H	P	e	d (Nom.)
MWS5	.67±.008 (16.9±0.2)	.34±.008 (8.6±0.2)	.19±.008 (4.8±0.2)	.17±.008 (4.2±0.2)	.06±.008 (1.4±0.2)	.03 (0.8)

ordering information

MWS	5	C	TEG	100	J
Type	Power Rating	Terminal Surface Material	Taping	Nominal Resistance	Resistance Tolerance
	5: 5W	C: SnCu	TEG: 12mm pitch plastic embossed	3 digits	J: ±5%

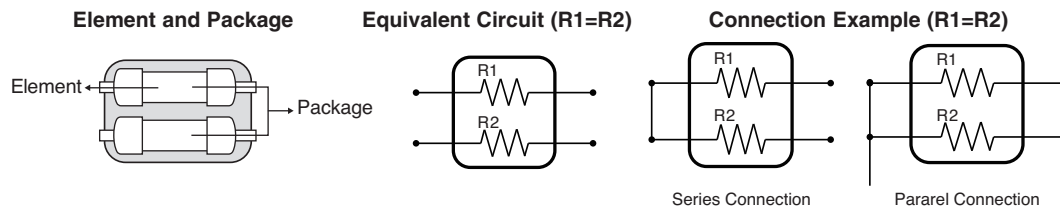
Contact us when you have control request for environmental hazardous material other than the substance specified by EU RoHS.

For further information on packaging, please refer to Appendix A.

applications and ratings

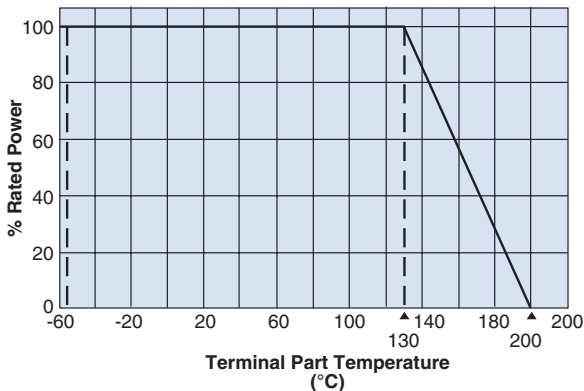
Part Designation	Power Rating		Rated Terminal Part Temperature	Resistance Range (Ω) J: ±5% (E24)	T.C.R. (x10 ⁻⁶ /K)	Operating Temperature Range
	Package	Piece				
MWS5	5W	2.5W	+130°C	1 - 470	200	-55°C to +200°C

Rated voltage = $\sqrt{\text{Power rating} \times \text{resistance value}}$



environmental applications

Derating Curve



When the terminal part temperature of the resistor exceeds the rated terminal part temperature shown, the power shall be derated according to the derating curve. Please refer to "Introduction of the derating curves based on the terminal part temperature" on the beginning of our catalog before use.

Performance Characteristics

Parameter	Requirement $\Delta R \pm(\%+0.05\Omega)$		Test Method
	Limit	Typical	
Resistance	Within specified tolerance	—	25°C
T.C.R.	Within specified T.C.R.	—	+25°C/-55°C and +25°C/+125°C
Rapid Change of Temperature	±2%	±0.6%	-55°C (30 minutes), +155°C (30 minutes), 1000 cycles
Overload (Short time)	±5%	±2%	Power Rating x 4, 5 seconds
Resistance to Solder Heat	±1%	±0.8%	350°C ± 10°C, 3.5 seconds or 260°C ± 5°C, 10 seconds
Moisture Resistance	±5%	±3%	Power Rating x 1/10, 85°C, 85% RH, 1000 hours
Endurance of Rated Terminal Part Temperature	±5%	±3%	130°C ± 2°C, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle
Resistance to Solvent	No abnormality in appearance such as disappearance of marking, etc.	—	On immersing the sample in IPA for 3 minutes, the resistor surface should be lightly wiped with a dry cloth (velvet or gauze)
High Temperature Exposure	±2%	±0.3%	+155°C, 1000 hours