MOLD TYPE RESISTORS



MWS Mold Wirewound Resistors



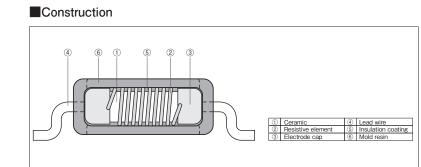
Coating color : Black

Features

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

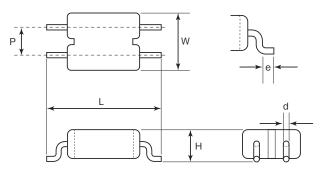
Applications

- Car electronics
- Industrial equipment



Dimensions

Туре		Weight (g)					
	L	W	Н	Р	е	d (Nominal)	(1000pcs)
MWS5	16.9±0.2	8.6±0.2	4.8±0.2	4.2±0.2	1.4±0.2	0.8	1000



Type Designation



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

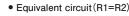
Contact us when you have control request for environmental hazardous material other than the substance specified by EU-RoHS.

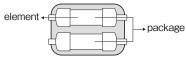
For further information on taping, please refer to APPENDIX C on the back pages.

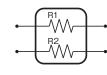
Ratings

Туре	PowerRating		Rated Terminal	Resistance Range (Ω)	T.C.R.	Operating Temp. Range	Taping & Q'ty/
	Package	Piece	Part Temp.	J:±5% (E24)	(×10 ⁻⁶ /K)	Operating reliip. nalige	Reel (pcs)
MWS5	5W	2.5W	+130°C	1~470	±200	−55°C~+200°C	1500

· Element and package

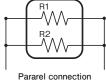






• Connection example (R1=R2)

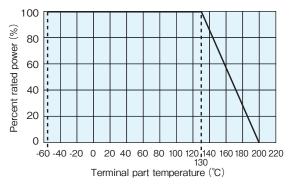
Series connection



Rated voltage = $\sqrt{Power Rating \times Resistance value}$



Derating Curve



When the terminal part temperature of the resistor exceeds the rated terminal part temperature shown above, 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

Test Characterisics	Performance Requirements $\Delta R \pm (\% + 0.05\Omega)$		_ Test Methods	
	Limit	Typical		
Resistance	Within specified tolerance内	—	25°C	
T.C.R.	Within specified T.C.R.	—	+25°C/-55°C and +25C/+125°C	
Rapid change of temperature	2	0.6	-55°C(30min.) / +155°C(30min.) 1000cyc.	
Overload(Short time)	5	2	Power Rating ×4, 5s	
Resistance to soldering heat	1	0.8	350℃±10℃, 3.5sec. or 260℃±5℃, 10s	
Moisture resistance	5	3	Power Rating×1/10, 85°C, 85%RH, 1000h	
Endurance of Rated Terminal part Temperature	5	3	130°C±2°C,1000h 1000h, 1.5h ON/0.5h OFF cycle	
Resistance to solvent	No abnormaly in appearance such as disappearance of making, 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 , 1000h	

Precautions for Use

• In case of using them for an AC circuit, abnormal phenomena like oscillation etc. occasionally happen as they have an inductance or a parasitic capacitance because of their wiring structures. Use them by taking the dispersion of constants of other components into the consideration.