DataSheet No:E05005
Version:V1
Date:2024/06/18

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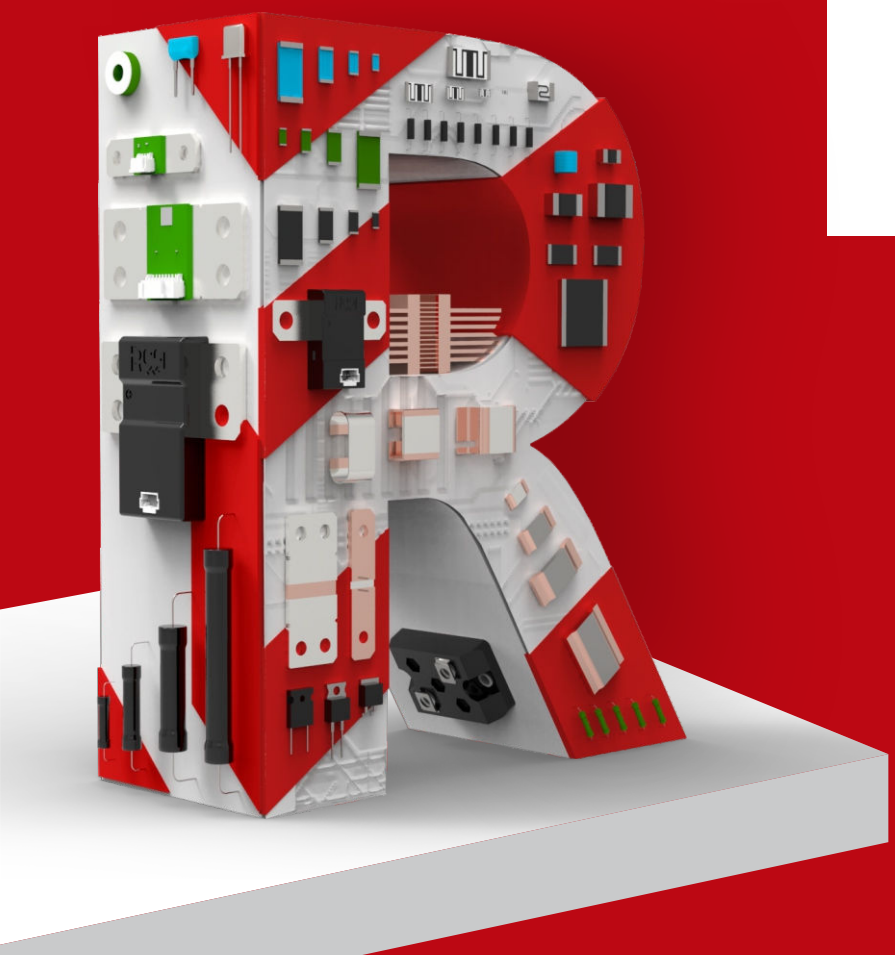
EWWR

Axial Lead Wirewound Resistors

Resistance	0.1Ω～8.2KΩ
Tolerance	±5%
TCR	±250ppm/°C
Rated Power	1W~10W



Applications

Precision Instrumentation

Semiconductor Testing Equipment

Medical Equipment

Capacitor Charging & Discharging

Better Solution for Sustainable High End Manufacturing

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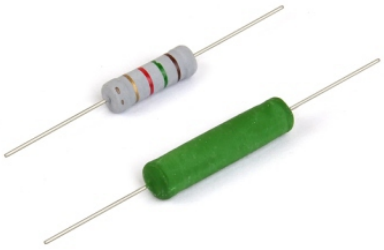
EWWR

Axial Lead Wirewound Resistors

Small Size and High Power
High Stability. Non-Flammable Paint Encapsulation



Introduction

EWWR series is an economical axial lead wirewound resistor. The small size of EWWR make circuit design more flexible. Optional power of 1W-10W, resistance range of 0.1 Ω~8.2KΩ, tightest tolerance of ±5% and insulation voltage of 700V. EWWR series is able to operate at relatively high temperatures without damage, with maximum operating temperature range of 155℃. The good heat resistance makes EWWR operate stably within nominal parameters, showing excellent performance in high-temperature environments or applications requiring long-term loads, and high product reliability.

If the standard specifications cannot meet your needs, please contact our sales for consultation. Resi is committed to providing the best precision resistor solutions to meet the needs of customers in instrumentation, semiconductor testing, medical instruments, capacitor charging and discharging, and other fields.

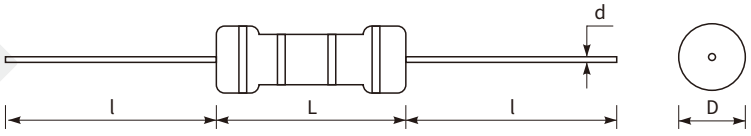
Electrical Parameters

Series	Rated Power	Resistance	Insulation Voltage	TCR	Tolerance
EWWR0001	1W	0.1Ω≤R≤510Ω	700V	±250ppm/℃	±5%
EWWR0003	3W	0.1Ω≤R≤510Ω	700V	±250ppm/℃	±5%
EWWR0006	6W	0.1Ω≤R<5.6KΩ	700V	±250ppm/℃	±5%
EWWR0008	8W	1Ω≤R≤8.2KΩ	700V	±250ppm/℃	±5%
EWWR0010	10W	1Ω≤R≤8.2KΩ	700V	±250ppm/℃	±5%

Dimensions

Unit: mm

Resistor



Series	L	D	l	d	Termination	Packaging	Quantity Per Reel	MOQ
EWWR0001	11.0±1.0	4.5±0.5	27±2.0	0.65±0.05	Axial lead	Bulk	100pcs	5000pcs
EWWR0003	15.0±1.0	5.5±0.5	27±2.0	0.75±0.05	Axial lead	Bulk	100pcs	5000pcs
EWWR0006	23.5±1.0	8.0±1.0	27±2.0	0.75±0.05	Axial lead	Bulk	100pcs	1200pcs
EWWR0008	31.5±1.0	9.0±1.0	27±2.0	0.75±0.05	Axial lead	Bulk	50pcs	1200pcs
EWWR0010	36.5±1.0	9.0±1.0	27±2.0	0.75±0.05	Axial lead	Bulk	50pcs	1000pcs

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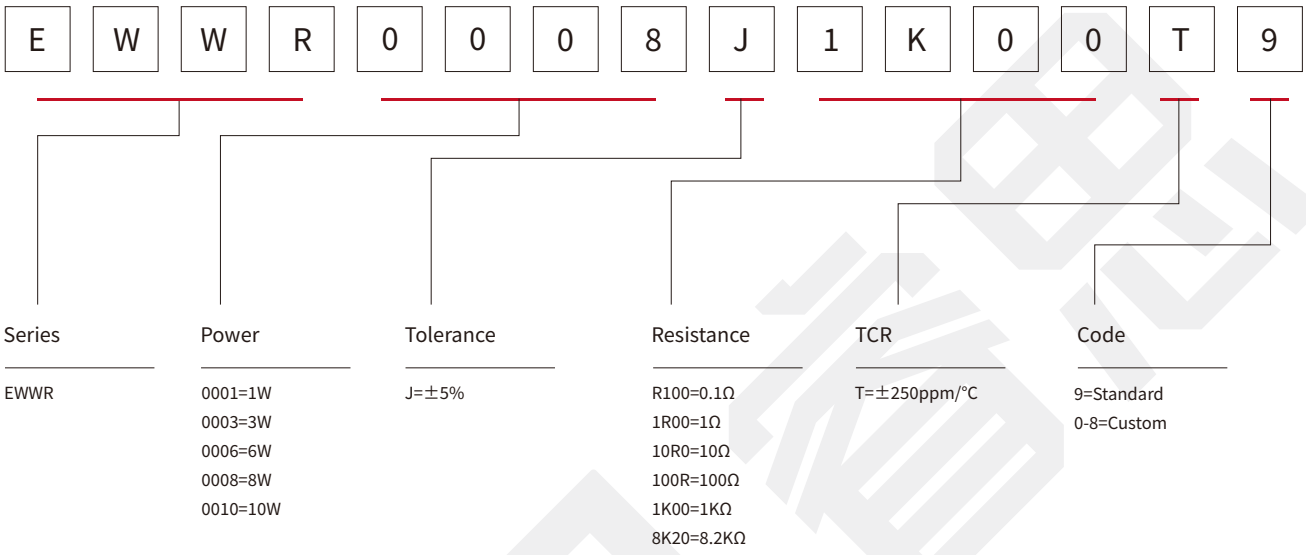
Part Number Information

Example：EWWR0008J1K00T9（EWWR 8W ±5% 1KΩ ±250ppm/°C Standard)



Performance

Test	Test Method	Standards	Test Limits
Short Time Overload	10 times rated power, 5s	IEC 60115-1 4.13	△R≤±(1.0%+0.05Ω)
Withstand Voltage	Apply a DC voltage of 100V between the electrode and the substrate for 60s	IEC 60115-1 4.7	No breakdown or flashover
Terminal Strength	Tensile: 10N, 30s, Bending: 5N, 2 cycle, Torsion: 5 cycle	IEC 60115-1 4.16	□R≤±□1.0%+0.05Ω□ No visible damage
Vibration	10~55~10Hz/min, Amplitude 1.5mm, 2h in each directions of X Y Z	MIL-STD-202 Method 204	□R≤±□1.0%+0.05Ω□ No visible damage
Resistance to Solder Heat	+260°C±5°C tin bath for 10s+1s	IEC 60115-1 4.18	△R≤±(1.0%+0.05Ω) No visible damage
Solderability	+245°C+5/-10°C tin bath for 2s+0.5s, immerse 3mm.	IEC 60115-1 4.17	90% minimum coverage
Thermal Shock	-55°C±3°C, 30min~room temperature, 2~3min~+125°C±3°C, 30min ~room temperature, 2~3min, 5 cycle	IEC 60115-1 4.19	△R≤±(1.0%+0.05Ω) No visible damage
Moisture Resistance	+40°C±2°C, 90%~95%RH, 0.1 times rated voltage, 1000h+48/-0h	IEC 60115-1 4.24	△R≤±(5.0%+0.1Ω)
Load Life	1000h+48/-0h @ room temperature, rated voltage AC, 1.5h on, 0.5h off	IEC 60115-1 4.25.1	△R≤±(5.0%+0.1Ω)

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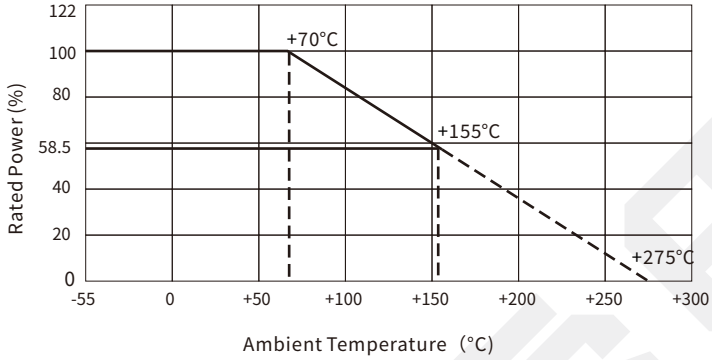
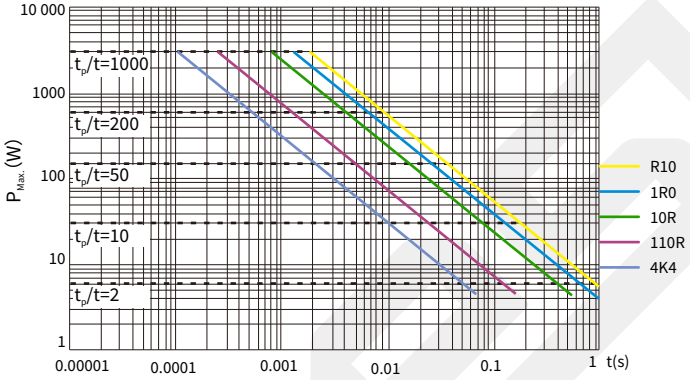
Derating Curve

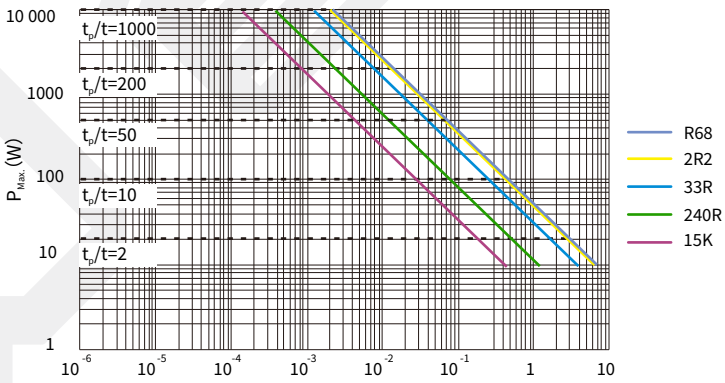


Pulse Power Curve (3W)



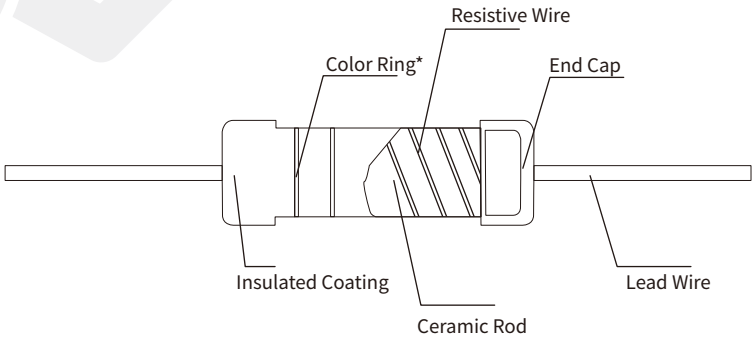
Maximum Pulse Power ($P_{max.}$) and Pulse Duration (t)

Pulse Power Curve (10W)



Maximum Pulse Power ($P_{max.}$) and Pulse Duration (t)

Construction



*The coating of EWWR0008 and EWWR0010 is green insulation coating without color ring identification.

Revision

Version	Revised Content	Date	Approver
V0	Initial Issue	2021.4.28	LFY
V1	1. Change datasheet to the new template 2. Add Construction Diagram 3. Add MOQ	2024.6.18	LFY

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