

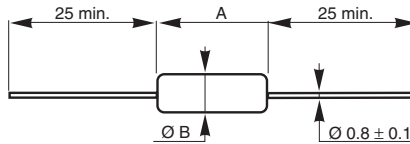
Enamelled Wirewound Power Resistors Axial Leads



As a result of more than 50 years of experience and continuous improvements the RWM Series of resistors features proven reliability in AC or DC applications.

The high quality of the RWM resides mainly in the use of a proprietary VISHAY SFERNICE enamel fired at high temperature and free from any compound liable to corrode the resistive wire.

DIMENSIONS in millimeters



FEATURES

- High dissipation
- High reliability level
 - Fire Proof
 - Great Mechanical Strength
 - Excellent Endurance
 - Good Environmental Protection
 - Conformal Vitreous Enamel – All Welded Construction
- Low ohmic values

The performance of this series of professional resistors fully meets the requirements of the following specifications:

- NF C 83-210-001
- CECC 40201-001
- BS - CECC 40201-002

TECHNICAL SPECIFICATIONS													
VISHAY SFERNICE STYLES	DESIGNATIONS			POWER RATING			Ohmic Range in Relation to Tolerance ± 5% E24 Series	Qualified Ohmic Range NF C 83-210	Limiting Element Voltage	Critical Resistance	DIMENSIONS IN MM		Weight in g
	CECC 40201-001 NFC 83-210-001	BS CECC 40201-002	Conformity MIL-R-26	at + 70°C	at + 25°C	With Surface Temp. ≤ + 450°C					A	Ø B	
☉ RWM 4 x 10	RB59	JB	RW69	2.6W	3W	5.5W	0.1Ω 10kΩ	0.1Ω 10kΩ	120V	4.8kΩ	12 ±1	5.5 ±1	1
☉ RWM 4 x 22	RB61	HB	–	4.5W	5W	7W	0.1Ω 16kΩ	0.1Ω 6.8kΩ	300V	–	22.1 ±1	5.5 ±1	2
☉ RWM 5 x 26	RB57	–	RW67	6W	7W	10W	0.1Ω 27kΩ	0.15Ω 10kΩ	350V	18.8kΩ	24.7 ±1	7.4 ±1.5	3
☉ RWM 6 x 22	RB57	KB	–	6W	7W	10W	0.1Ω 39kΩ	0.15Ω 39kΩ	350V	17.5kΩ	18 ±1	6.5 ±1	2.2
RWM 8 x 26	RB60	–	–	7W	8W	10W	0.1Ω 27kΩ	–	500V	–	24.7 ±1	7.4 ±1.5	3
☉ RWM 6 x 34	RB60	–	–	7W	8W	12W	0.33Ω 36kΩ	0.33Ω 15kΩ	500V	31kΩ	33.7 ±1	7.4 ±1.5	4
RWM 8 x 34	RB58	–	–	9.5W	11W	14W	0.33Ω 36kΩ	–	650V	–	33.7 ±1	7.4 ±1.5	4
☉ RWM 8 x 45	RB58	–	RW68	9.5W	11W	20W	0.47Ω 62kΩ	0.47Ω 33kΩ	650V	38kΩ	45.8 ±2	9.4 ±1.5	8
RWM 10 x 45	–	–	–	21W	25W	25W	0.47Ω 62kΩ	–	800V	25.6kΩ	45.8 ±2	9.4 ±1.5	8
RWM 10 x 64	–	–	–	21W	25W	25W	0.68Ω 100kΩ	–	800V	25.6kΩ	63.8 ±1	9.4 ±1.5	14
RWM 10 x 65	–	–	–	25.8W	30W	30W	0.68Ω 100kΩ	–	800V	21.3kΩ	63.8 ±1	9.4 ±1.5	14

☉ Undergoes European Quality Insurance System (CECC)



PERFORMANCE			
CECC 40201			TYPICAL DRIFTS
TESTS	CONDITIONS	REQUIREMENTS	
Short Time Overload	10Pr during 10s. 25°C ambient	±(2% + 0.1Ω)	±(0.5% + 0.05Ω)
Temperature Cycling	- 55°C + 200°C	±(1% + 0.05Ω)	±(0.5% + 0.05Ω)
Humidity (Steady State)	56 days 40°C Ambient - R.H. 95%	±(5% + 0.1Ω)	±(0.5% + 0.05Ω)(
Terminal Strength	Tensile test: 20N 2 successive bending 2 full rotations of 180°	±(1% + 0.05Ω)	±(0.1% + 0.05Ω)
Load Life	1000h at Pr 90/30 Cycle 25°C ambient	±(5% + 0.1Ω)	±(1.5% + 0.05Ω)

OVERLOAD

Heavy overloads can be endured in the form of short pulses < 0.1s. Particular requirements should be submitted to Vishay Sfernice, specifying peak voltage, cycle and environmental conditions.

RECOMMENDATIONS FOR USE

Since these components are high dissipation power resistors, customers are advised to use a high melting point solder.

For low ohmic values, the measurement becomes critical and the connecting wires resistance is to be included. The value is measured at 5mm from the resistor body.

Group Mounting

In a still atmosphere, a distance between axes equal to five times the resistor's diameter is recommended.

Cabinet Mounting

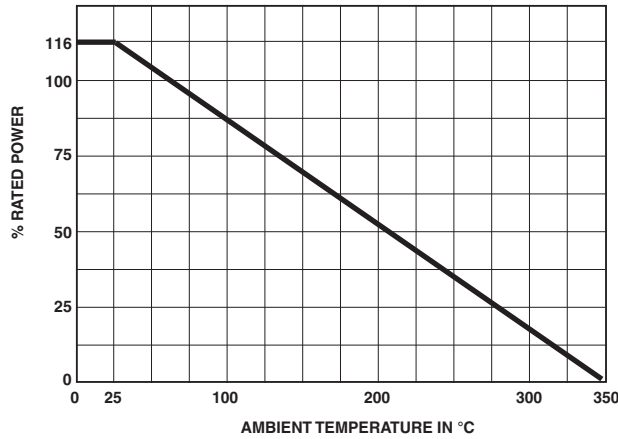
- Unventilated box: dissipation should be reduced (see dimensional drawing).
- Forced ventilation: if conditions are appropriate, dissipation may be doubled or even trebled.
- In any case: the surface temperature at the hottest point should not exceed 450°C.

These aspects should be considered by the end user.

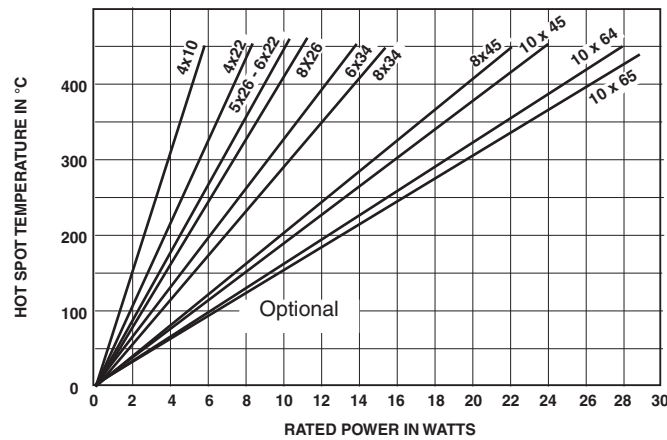
ELECTRICAL SPECIFICATIONS	
Tolerance	Standard ± 5%
	On request ± 1% to ± 10%
Temperature Coefficient	+ 75ppm/°C typical
Dielectric Withstanding Voltage NF EN 140000	500VRMS - 1minute - 10mA
Inductance	non inductive (Ayrton-Perry)winding available



POWER RATING CHART



TYPICAL TEMPERATURE RISE



MARKING

Sfernice trademark, model and style, CECC style, if applicable (except for the smallest model due to lack of space: (4 x 10 or RB 59), ohmic value, resistance tolerance, manufacturing date (year - month).

ORDERING INFORMATION						
RWM	8 x 45		XXX	1.6kΩ	± 5%	
MODEL	STYLE	NI OPTIONAL	SPECIAL DESIGN	OHMIC VALUE	TOLERANCE	PACKAGING
		Non Inductive Winding	Method N° Optional	Custom items are subject to extra charge and min. order. Please see price list.		



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