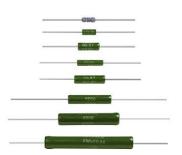


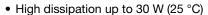
Enamelled Wirewound Power Resistors Axial Leads



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.

FEATURES





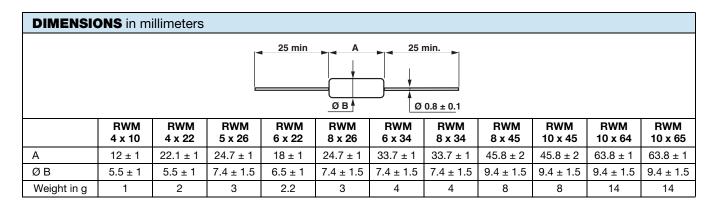


ROHS

- Excellent endurance typical drift ± 1.5 % after 1000 h
- · Conformal vitreous enamel
- All welded construction
- Low ohmic values 0.1 Ω available
- Termination: Sn/Ag/Cu
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

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



STANDARD ELECTRICAL SPECIFICATIONS						
MODEL	SIZE	RESISTANCE RANGE Ω	RATED POWER P _{25 °C} W	LIMITING ELEMENT VOLTAGE V	TOLERANCE ± %	
RWM 4 x 10	0410	0.1 to 10K	3	120	1, 2, 5	
RWM 4 x 22	0422	0.1 to 16K	5	300	1, 2, 5	
RWM 5 x 26	0526	0.1 to 27K	7	350	1, 2, 5	
RWM 6 x 22	0622	0.1 to 39K	7	350	1, 2, 5	
RWM 8 x 26	0826	0.1 to 27K	8	500	1, 2, 5	
RWM 6 x 34	0634	0.33 to 36K	8	500	1, 2, 5	
RWM 8 x 34	0834	0.33 to 36K	11	650	1, 2, 5	
RWM 8 x 45	0845	0.47 to 62K	11	650	1, 2, 5	
RWM 10 x 45	1045	0.47 to 62K	25	800	1, 2, 5	
RWM 10 x 64	1064	0.68 to 100K	25	800	1, 2, 5	
RWM 10 x 65	1065	0.68 to 100K	30	800	1, 2, 5	

Vishay Sfernice

TECHNICAL SPECIFICATIONS												
VISHAY SFERNICE SERIES AND STYLE		RWM 4 x 10	RWM 4 x 22	RWM 5 x 26	RWM 6 x 22	RWM 8 x 26	RWM 6 x 34	RWM 8 x 34	RWM 8 x 45	RWM 10 x 45	RWM 10 x 64	RWM 10 x 65
	at +70 °C	2.6 W	4.5 W	6 W	6 W	7 W	7 W	9.5 W	9.5 W	21 W	21 W	25.8 W
Power Rating	at +25 °C	3 W	5 W	7 W	7 W	8 W	8 W	11 W	11 W	25 W	25 W	30 W
	With Surface Temp. ≤ +450 °C	5.5 W	7 W	10 W	10 W	10 W	12 W	14 W	20 W	25 W	25 W	30 W
Ohmic Range in Relation to Tolerance ± 5 % E24 Series		0.1 Ω 10 kΩ	0.1 Ω 16 kΩ	0.1 Ω 27 kΩ	0.1 Ω 39 kΩ	0.1 Ω 27 kΩ	0.33 Ω 36 kΩ	0.33 Ω 36 kΩ	0.47 Ω 62 kΩ	0.47 Ω 62 kΩ	0.68 Ω 100 kΩ	0.68 Ω 100 kΩ
Qualified Ohmic Range NF C 83-210		0.1 Ω 10 kΩ	0.1 Ω 6.8 kΩ	0.15 Ω 10 kΩ	0.15 Ω 39 kΩ	-	0.33 Ω 15 kΩ	-	0.47 Ω 33 kΩ	-	-	-
Limiting Element Voltage		120 V	300 V	350 V	350 V	500 V	500 V	650 V	650 V	800 V	800 V	800 V
Critical Resistance		4.8 kΩ	-	18.8 kΩ	17.5 kΩ	-	31 kΩ	-	38 kΩ	25.6 kΩ	25.6 kΩ	21.3 kΩ

PERFORMANCE							
CECC 40201 - EN 140-201	TYPICAL DRIFTS						
TESTS							
Short Time Overload	10 P _r during 10 s 25 °C ambient	± (2 % + 0.1 Ω)	± (0.5 % + 0.05 Ω)				
Temperature Cycling (5 cycles)	-55 °C +200 °C	± (1 % + 0.05 Ω)	± (0.5 % + 0.05 Ω)				
Humidity (Steady State)	56 days 40 °C ambient - R.H. 95 %	± (5 % + 0.1 Ω)	± (0.5 % + 0.05 Ω)				
Terminal Strength	Tensile test: 20 N 2 successive bending 2 full rotations of 180°	± (1 % + 0.05 Ω)	± (0.1 % + 0.05 Ω)				
Load Life	1000 h at <i>P</i> _r 90'/30' cycle 25 °C ambient	± (5 % + 0.1 Ω)	± (1.5 % + 0.05 Ω)				

OVERLOAD

Heavy overloads can be endured in the form of short pulses < 0.1 s. 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 5 mm from the resistor body.

Group Mounting

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

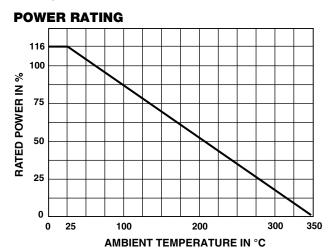
Cabinet Mounting

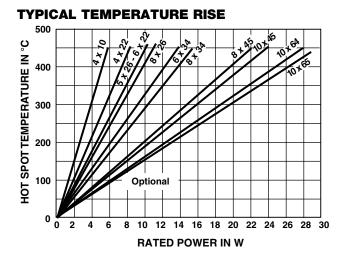
- Unventilated box: Dissipation should be reduced (see dimensional drawing).
- Forced ventilation: If conditions are appropriate, dissipation may be doubled or even trebled.
- In any case: The surface temperature at the hottest point should not exceed 450 °C.

These aspects should be considered by the end user.

ELECTRICAL SPECIFICATIONS						
Tolerance Standard		± 5 % (NI ± 10 %)				
Tolerance	On request	± 1 % and ± 2 % (NI ± 5 %)				
Temperature Coefficient		+75 ppm/°C typical				
Dielectric Withstanding Voltage NF EN140000		500 V _{RMS} - 1 min - 10 mA				
Inductance		Non inductive (Ayrton-Perry) winding available				



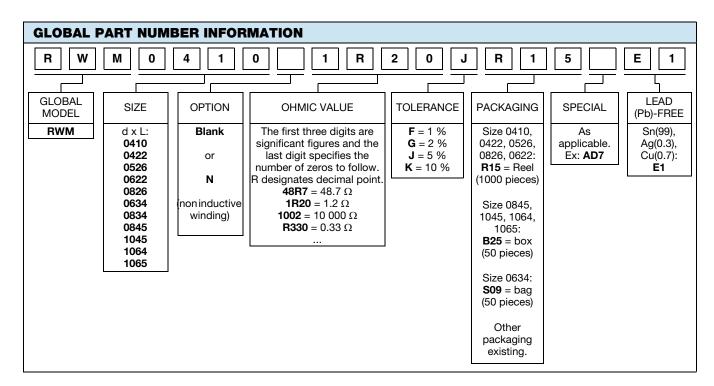




MARKING

Vishay Sfernice trademark, model and 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	4 x 10		XXX	1U2	± 5 %	AM500	e1	
MODEL	STYLE	NI OPTIONAL	SPECIAL DESIGN	OHMIC VALUE	TOLERANCE	PACKAGING	LEAD (Pb)-FREE	
		Non Inductive Winding	Method N° Optional	Custom items are subject to extra charge and minimum order. Please see price list.				





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Vishay

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Mouser Electronics

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Vishay:

RWM04101001JR15E	1 RWM04103R00JR15E	1 RWM04103R30JR15E	1 RWM04102R20JR15E1
RWM04105600JR15E1	RWM041047R0JR15E1	RWM0410R150JR15E1	RWM041027R0JR15E1
RWM0410R470JR15E1	RWM04106800JR15E1	RWM04101000JR15E1	RWM04103900JR15E1
RWM0410R220JR15E1	RWM04103301JR15E1	RWM04104700JR15E1	RWM04101500JR15E1
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RWM062233R0JA15E1	RWM06223900JA15E1	RWM06223R30JA15E1	RWM06224700JA15E1
RWM062247R0JA15E1	RWM06224R70JA15E1	RWM06225600JA15E1	RWM06225601JA15E1
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