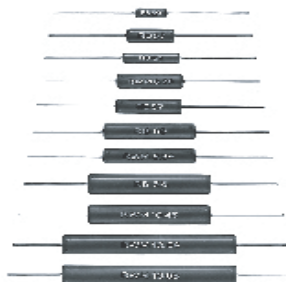


Enamelled Wirewound Power Resistors Axial Leads



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

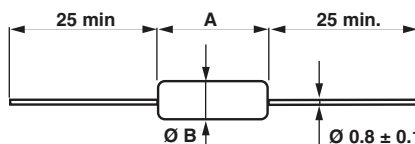
- High dissipation up to 30 W (25 °C)
- Fire proof
- Excellent endurance typical drift $\pm 1.5\%$ after 1000 h
- Conformal vitreous enamel
- All welded construction
- Low ohmic values $0.1\ \Omega$ available
- Termination: Sn/Ag/Cu
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912


RoHS
COMPLIANT

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

DIMENSIONS in millimeters



	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
A	12 ± 1	22.1 ± 1	24.7 ± 1	18 ± 1	24.7 ± 1	33.7 ± 1	33.7 ± 1	45.8 ± 2	45.8 ± 2	63.8 ± 1	63.8 ± 1
Ø B	5.5 ± 1	5.5 ± 1	7.4 ± 1.5	6.5 ± 1	7.4 ± 1.5	7.4 ± 1.5	7.4 ± 1.5	9.4 ± 1.5	9.4 ± 1.5	9.4 ± 1.5	9.4 ± 1.5
Weight in g	1	2	3	2.2	3	4	4	8	8	14	14

STANDARD ELECTRICAL SPECIFICATIONS

MODEL	SIZE	RESISTANCE RANGE Ω	RATED POWER $P_{25\ ^\circ\text{C}}$ W	LIMITING ELEMENT VOLTAGE V	TOLERANCE $\pm\%$
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

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
Power Rating	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
	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	CONDITIONS	REQUIREMENTS	
Short Time Overload	10 P_T 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 P_T 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.

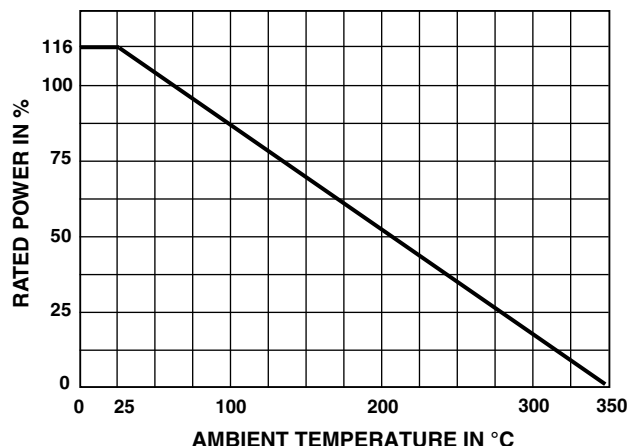
These aspects should be considered by the end user.

ELECTRICAL SPECIFICATIONS

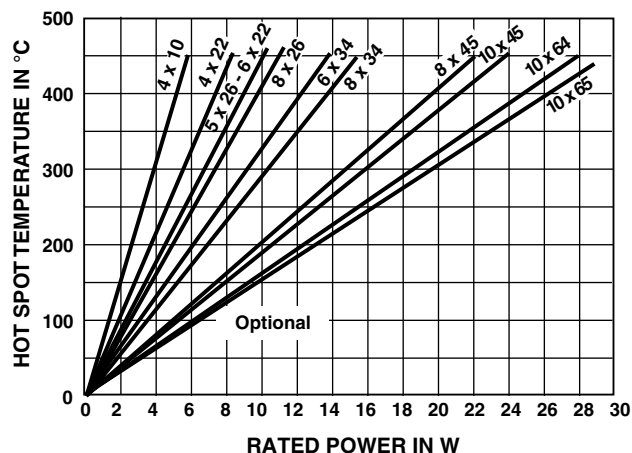
Tolerance	Standard	± 5 % (NI ± 10 %)
	On request	± 1 % and ± 2 % (NI ± 5 %)
Temperature Coefficient		+75 ppm/°C typical
Dielectric Withstanding Voltage NF EN140000		500 V _{RMS} - 1 min - 10 mA
Inductance		Non inductive (Ayrton-Perry) winding available



POWER RATING



TYPICAL TEMPERATURE RISE



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.			

GLOBAL PART NUMBER INFORMATION

R	W	M	0	4	1	0		1	R	2	0	J	R	1	5		E	1
GLOBAL MODEL		SIZE		OPTION		OHMIC VALUE				TOLERANCE		PACKAGING		SPECIAL		LEAD (Pb)-FREE		
RWM		d x L: 0410 0422 0526 0622 0826 0634 0834 0845 1045 1064 1065		Blank or N (non inductive winding)		The first three digits are significant figures and the last digit specifies the number of zeros to follow. R designates decimal point. 48R7 = 48.7 Ω 1R20 = 1.2 Ω 1002 = 10 000 Ω R330 = 0.33 Ω ...				F = 1 % G = 2 % J = 5 % K = 10 %		Size 0410, 0422, 0526, 0826, 0622: R15 = Reel (1000 pieces) Size 0845, 1045, 1064, 1065: B25 = box (50 pieces) Size 0634: S09 = bag (50 pieces) Other packaging existing.		As applicable. Ex: AD7		Sn(99), Ag(0.3), Cu(0.7): E1		



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RWM04101001JR15E1	RWM04103R00JR15E1	RWM04103R30JR15E1	RWM04102R20JR15E1
RWM04105600JR15E1	RWM041047R0JR15E1	RWM0410R150JR15E1	RWM041027R0JR15E1
RWM0410R470JR15E1	RWM04106800JR15E1	RWM04101000JR15E1	RWM04103900JR15E1
RWM0410R220JR15E1	RWM04103301JR15E1	RWM04104700JR15E1	RWM04101500JR15E1
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RWM0622R100JA15E1	RWM0622R150JA15E1	RWM0622R220JA15E1	RWM0622R330JA15E1
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RWM06221500JA15E1	RWM06221501JA15E1	RWM062215R0JA15E1	RWM06221R00JA15E1
RWM06221R80JA15E1	RWM06222200JA15E1	RWM06222201JA15E1	RWM062222R0JA15E1
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RWM062247R0JA15E1	RWM06224R70JA15E1	RWM06225600JA15E1	RWM06225601JA15E1
RWM062256R0JA15E1	RWM06226800JA15E1	RWM06226801JA15E1	RWM062268R0JA15E1