



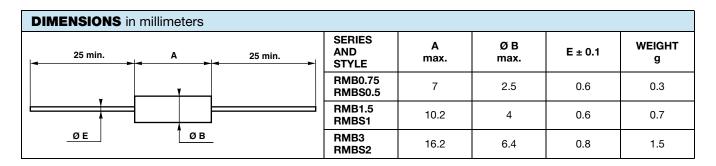
Molded Precision Wirewound Resistors Axial Leads



FEATURES

- 0.75 W to 3 W at 25 °C
- NF C 83-210
- CECC 40201-005
- Low temperature coefficient ≤ ± 50 ppm/°C
- Low ohmic values 15 mΩ available
- Excellent behavior against humidity
- Electrical insulation
- · Mechanical strength
- Accurate sizes
- Termination = Sn/Ag/Cu or pure matte tin according to the ohmic value
- Material categorization: For definitions of compliance please see www.vishav.com/doc?99912

High stability and low temperature coefficient are the main features of the precision wirewound resistors type RMB RMBS models just as maintenance parts. Their performances can be compared with those of the best film resistors but they have in addition a greater power rating. RMBS styles meet the more severe requirements of NF C 83-210 (all RMBS styles are approved) and characteristic U of MIL-R-26 E (approximate size of RW 70 and 79 resistors) specifications. The two models RMB and RMBS have a similar construction. RMBS are submitted, in addition to a process which further increases the stability. On request, non-inductive resistors are available under the reference RMB NI.



STANDARD ELECTRICAL SPECIFICATIONS								
MODEL	SIZE	RESISTANCE RANGE Ω	RATED POWER P _{25 °C} W	LIMITING ELEMENT VOLTAGE V	TOLERANCE ± %			
RMB0.75	075	0.1 to 2K	0.75	n/a	0.1, 0.5, 1, 2, 5			
RMB1.5	105	0.1 to 6.81K	1.5	120	0.1, 0.5, 1, 2, 5			
RMB3	300	0.051 to 13K	3	200	0.1, 0.5, 1, 2, 5			
RMBS0.5	05	0.1 to 2K	0.5	n/a	0.1, 0.5, 1, 2, 5			
RMBS1	10	0.1 to 6.81K	1	120	0.1, 0.5, 1, 2, 5			
RMBS2	20	0.015 to 13K	2	200	0.1, 0.5, 1, 2, 5			

Note

• E Undergoes European Quality Insurance System (CECC)





TECHNICAL SPECIFICATIONS								
VISHAY SFERNICE SERIES AND STYLE		RMB0.75	RMB1.5	RMB3	RMBS0.5	RMBS1	RMBS2	
NF C 83-210		-	-	-	RP1	RP2	RP3	
CECC 40201-005		-	-	-	Α	В	С	
at 25 °C		0.75 W	1.5 W	3 W	0.5 W	1 W	2 W	
Power Rating	at 70 °C	0.6 W	1.2 W	2.4 W	0.4 W	0.8 W	1.6 W	
Ohmic Range in	± 5 % E24	$0.1~\Omega$ to $2~\mathrm{k}\Omega$	$0.1~\Omega$ to $6.81~\mathrm{k}\Omega$	$0.051~\Omega$ to $13~\mathrm{k}\Omega$	0.1 Ω to 2 kΩ	$0.1~\Omega$ to $6.81~\mathrm{k}\Omega$	$0.015~\Omega$ to $13~\mathrm{k}\Omega$	
	± 2 % E48	0.1 Ω to 2 kΩ	0.1 Ω to 6.81 kΩ	0.08 Ω to 12.3 kΩ	0.1 Ω to 2 kΩ	0.1 Ω to 6.81 kΩ	0.078 Ω to 12.4 kΩ	
Relation to Tolerance	± 1 % E96	$0.1~\Omega$ to $2~\mathrm{k}\Omega$	$0.1~\Omega$ to $6.81~\mathrm{k}\Omega$	0.1 Ω to 12.4 kΩ	0.1 Ω to 2 kΩ	$0.1~\Omega$ to $6.81~\mathrm{k}\Omega$	0.1 Ω to 12.4 kΩ	
	± 0.5 % E96	$0.4~\Omega$ to $2~\mathrm{k}\Omega$	$0.4~\Omega$ to $6.81~\mathrm{k}\Omega$	0.3 Ω to 12.4 kΩ	0.4 Ω to 2 kΩ	$0.4~\Omega$ to $6.81~\mathrm{k}\Omega$	0.3 Ω to 12.4 kΩ	
	± 0.1 %	Please consult Vishay Sfernice						
Qualified Ohmic Range NF C 83-210		-		-	1 Ω to 174 Ω	1 Ω to 590 Ω	1 Ω to 1.3 k Ω	
Limiting Element Voltage		Not applicable	120 V	200 V	Not applicable	120 V	200 V	
Critical Resistance		Out of nominal ohmic range						

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PERFORMANCE							
TEOTO	CONDITIONS	REQUIF	REMENTS	TYPICAL VALUES AND DRIFTS			
TESTS	CONDITIONS	MIL-R-26 E	NF C 83-210	RMB	RMBS		
Dielectric W/s Voltage	500 V _{RMS}	± (0.1 % + 0.05 Ω)	-	± (0.05 % + 0.01 Ω)	± (0.05 % + 0.01 Ω)		
Short Time Overload	5 P _n at 25 °C/5 s	± (0.2 % + 0.05 Ω)	± 0.25 % + 0.05 Ω	± (0.1 % + 0.01 Ω)	$\pm (0.05 \% + 0.01 \Omega)$		
Climatic Sequence	NF C 83-210 -55 °C / +200 °C 5 cycles	-	$\pm~0.25~\%~+~0.05~\Omega$ Insulation R > 100 $M\Omega$	$\pm (0.1 \% + 0.01 \Omega)$ > $10^4 M\Omega$	$\pm (0.05 \% + 0.01 \Omega)$ > $10^4 M\Omega$		
Humidity (Steady State)	NF C 83-210 56 days 95 % RH	-	$\pm~0.25~\%~+~0.05~\Omega$ Insulation R > 100 $M\Omega$	$\pm (0.1 \% + 0.01 \Omega)$ > $10^4 M\Omega$	$\pm (0.05 \% + 0.01 \Omega)$ > $10^4 M\Omega$		
Thermal Shock	Load at 100 % P followed by cold temp. exposure at -55 °C	± (0.2 % + 0.05 Ω)	-	± (0.2 % + 0.01 Ω)	(0.1 % + 0.01 Ω)		
Vibration	MIL-STD-202 Method 204 - Test D: 20 <i>g</i> 10/2000 Hz	± (0.2 % + 0.05 Ω)	± 0.25 % + 0.05 Ω	± (0.01 % + 0.01 Ω)	± (0.01 % + 0.01 Ω)		
Load Life	MIL-STD-202 Method 108 Pr 2000 h	± (0.5 % + 0.05 Ω)	± 0.25 % + 0.05 Ω 1000 h at 25 °C	± (1 % + 0.01 Ω)	± (0.15 % + 0.01 Ω)		
Moisture Resistance	MIL-STD-202 Method 106	$\begin{array}{c} \pm \; (0.2 \; \% \; + \; 0.05 \; \Omega) \\ \text{Insulation resistance} \\ > 100 \; M\Omega \end{array}$	-	$\pm (0.1 \% + 0.01 \Omega)$ > $10^3 M\Omega$	$\pm (0.05 \% + 0.01 \Omega)$ > $10^3 M\Omega$		
High Temperature	1000 h at +200 °C	± (0.5 % + 0.05 Ω)	\pm 0.5 % + 0.05 Ω Insulation R > 1 G Ω	± 1 %	± 0.3 %		
Shock	MIL-STD-202 100 g Method 205 Test C	± (0.1 % + 0.05 Ω)	± 0.25 % + 0.05 Ω	± 0.05 %	± 0.05 %		

TEMPERATURE COEFFICIENT IN THE RANGE -55 °C TO +200 °C							
OHMIC RANGE	TYPICAL VALUES SFERNICE						
	MIL						
R _n < 1	≤ ± 100 ppm/°C	. 50 nnm/°C					
$1 \le R_n < 10$	≤ ± 50 ppm/°C	± 50 ppm/°C					
<i>R</i> _n ≥ 10	≤ ± 25 ppm/°C	+0 °C to -20 ppm/°C					

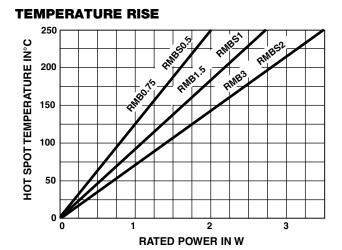


STABILITY AND POWER RATING

Stability changes slightly according to power rating and ambient temperature. This fact is specially important for users needing a life drift lower than the initial resistance tolerance. Typical drifts, after 2000 h life test made under the 90'/30' conditions and at a 25 °C ambient temperature are:

MODEL STYLE	RMBS 0.5	RMBS 1	RMBS 2	R %/R %	MODEL STYLE	RMB 0.75	RMB 1.5	RMB 3	R %/R %
P_{n}	0.5 W	1 W	2 W	0.15 %	P _{max} .	1 W	2 W	3.5 W	1 %
1/2 P _n	0.25 W	0.5 W	1 W	0.075 %	P _n	0.75 W	1.5 W	3 W	0.5 %
					1/3 P _n	0.4 W	0.75 W	1.5 W	0.3 %

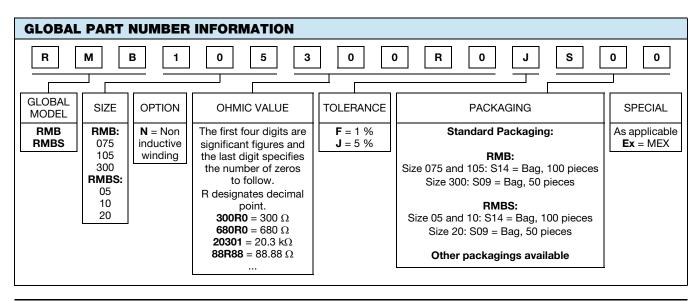
POWER RATING 125 100 NI W 75 0 0 0 100 150 200 250 275 300 350 AMBIENT TEMPERATURE IN °C



MARKING

Vishay Sfernice trademark, model, style, CECC style (if applicable) nominal resistance (in Ω), tolerance (in %), manufacturing date.

ORDERING INFORMATION							
RMB	105	R5000	J	S00			
RMBS	05	22R00	J	S14			
MODEL	STYLE	OHMIC VALUE	TOLERANCE	PACKAGING			





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