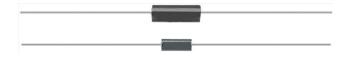


Molded Metal Film Resistors Low Temperature Coefficient, High Precision



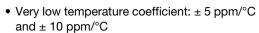
The RCME range of metal film resistors represents a significant technical advancement in resistive technology, combining low temperature coefficients with high environmental stabilities, and high frequency performance.

Laser beam trimming gives tolerance accuracies from 0.1 % to 1 %.

The RCME range effectively bridges the gap that has hitherto existed between the high precision, high stability foil or wirewound technology and conventional film technology.

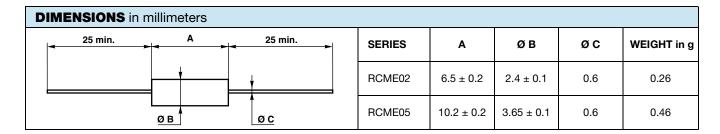
FEATURES

0.125 W to 0.25 W at 85 °C



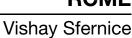


- Very tight tolerances: down to ± 0.1 %
- Electrical insulation $> 10^7 M\Omega$
- Climatic category -65 °C / +155 °C / 56 days
- Excellent frequency performance
- Termination = pure matte tin
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



STANDARD ELECTRICAL SPECIFICATIONS							
MODEL	RESISTANCE RANGE Ω	RATED POWER P _{85 °C} W	LIMITING ELEMENT VOLTAGE V	TOLERANCE ± %	TEMPERATURE COEFFICIENT ± ppm/°C		
RCME02	100 to 750K	0.125	300	0.1, 0.2, 0.5, 1	5, 10		
RCME05	100 to 750K	0.25	350	0.1, 0.2, 0.5, 1	5, 10		

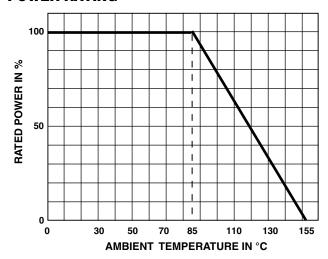
TECHNICAL SPECIFICATIONS					
VISHAY SFERNICE SERIES	RCME02	RCME05			
Nominal Temperature Coefficient in the Range -20 °C to +85 °C	K6 ≤ ± 10 ppm/°C K8 ≤ ± 5 ppm/°C				
Insulation Resistance	$> 10^7 \text{M}\Omega$				
Voltage Coefficient	0.0001 %/V				
Environmental Specifications	-65 °C / +155 °C / 56 days				



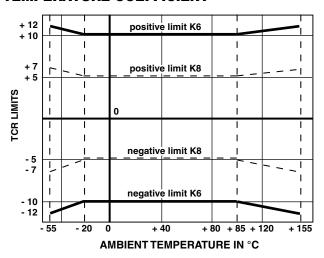


PERFORMANCE						
EN140-100	MAXIMUM VALUES AND DRIFTS					
TESTS	CONDITIONS	MAXIMUM VALUES AND DRIFTS				
Load Life at Maximum Category Temperature	1000 h at +155 °C / 0 % of P _n	\pm 0.15 % or 0.05 Ω				
Short Time Overload	2.5 Un / 5 s Limited to 2 Um	\pm 0.01 % or 0.05 Ω				
Damp Heat Humidity (Steady State)	56 days with low load	\pm 0.15 % or 0.05 Ω				
Rapid Temperature Change	-55 °C to +155 °C	± 0.05 % or 0.05 Ω				
Climatic Sequence	-55 °C to +155 °C severity 1	\pm 0.15 % or 0.05 Ω Insulation resistance > $10^6~\text{M}\Omega$				
Terminal Strength	Pull - twist - 2 bends	± 0.05 % or 0.05 Ω				
Vibration	Severity 55B	± 0.05 % or 0.05 Ω				
Soldering (Thermal Shock)	+260 °C 10 s	± 0.05 % or 0.05 Ω				
Load Life	Cycle 90'/30' 1000 h at <i>P</i> _n at 85 °C	\pm 0.05 % or 0.05 Ω				
Shelf Life	1 year ambient temperature	± 0.03 % or 0.05 Ω				

POWER RATING



TEMPERATURE COEFFICIENT



The temperature coefficient is guaranteed between -20 $^{\circ}$ C to +85 $^{\circ}$ C.

The limits of TCR are:

K 8 \pm 5 ppm/°C and K 6 \pm 10 ppm/°C

For use outside the range -20 °C or +85 °C, limiting values of temperature coefficient are given in the graph above.



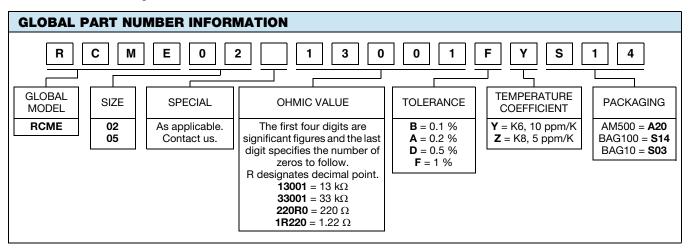


www.vishay.com

Vishay Sfernice

MARKING

Printed: Vishay Sfernice trademark, series, style (in full or abbreviated), ohmic value (in Ω), tolerance (in %), temperature coefficient, manufacturing date.





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