www.vishay.com

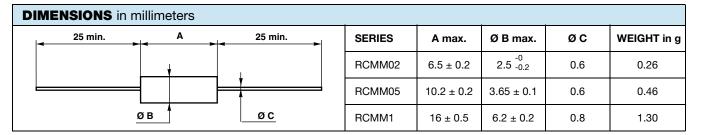
RCMM1 K

RCMMO

Molded Metal Film Resistors

FEATURES

- 0.25 W to 1 W at 70 °C
- NF C 83-230 (RC21U-31U-41U-32)
- CECC 40 100
- High insulation > $10^7 M\Omega$
- Great mechanical strength
- 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 _{70 °C} W	LIMITING ELEMENT VOLTAGE V	TOLERANCE ± %	TEMPERATURE COEFFICIENT ± ppm/°C	
	1 to 332K	0.25	300	2, 5	50, 100	
	1 to 332K	0.50	350	2, 5	50, 100	
RCMM05	1 to 1M	0.50	350	2, 5	50, 100	
RCMM1	1 to 2.26M	1.0	500	2, 5	50, 100	

Note

• E Undergoes European Quality Insurance System (CECC)

TECHNICAL SPECI	FICATIONS					
VISHAY SFERNICE SERIES		RCMM02		RCMM05 🗲	RCMM1 🗲	
CECC 83-230		RC21U	RC32	RC31U	RC41U	
CECC 40 100-802		BV	-	CV	-	
Power Rating at 70 °C		0.25 W	0.50 W	0.50 W	1 W	
Resistance Value Range in Relation to Tolerance	± 5 %	1 Ω to 330 kΩ E24	1 Ω to 330 kΩ E24	1 Ω to 1 MΩ E24	1 Ω to 2.2 MΩ E24	
	± 2 %	1 Ω to 332 kΩ E48	1 Ω to 332 kΩ E48	1 Ω to 1 MΩ E48	1 Ω to 2.26 MΩ E48	
Maximum Voltage		300 V	350 V	350 V	500 V	
Critical Resistance		-	245 kΩ	245 kΩ	250 kΩ	
Temperature Coefficient	Rated in the range - 55 °C + 155 °C	K2 ≤ ± 100 ppm/°C				
	Typical in the range - 10 °C + 70 °C	≤ ± 50 ppm/°C				
Insulation Resistance (Typical)		$\geq 10^7 \text{ M}\Omega \text{ (500 V}_{\text{DC}}\text{)}$				
Voltage Coefficient		\leq ± 10 ppm/V				
Environmental Specifications		-65 °C / +155 °C / 56 days				

Note

E Undergoes European Quality Insurance System (CECC)

Revision: 27-May-2019

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RCMM

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RCMM

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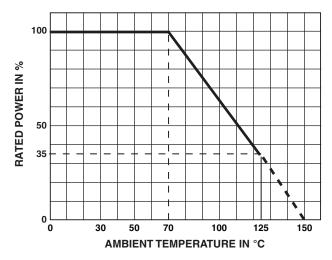
PERF	ORMA	NCE
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CECC 40 100 EN 140100	TYPICAL VALUES				
TESTS	CONDITIONS	REQUIREMENTS	AND DRIFTS		
Load Life at max. Category Temperature	1000 h at 125 °C 35 % of P _n	\leq ± (2 % + 0.1 Ω) Insulation resist. > 1 G Ω	\pm 0.75 % or 0.05 Ω Insulation resist. 10^6 $M\Omega$		
Short Time Overload	2.5 Un / 5 s Limited to 2 Um	$\leq \pm (0.5 \% + 0.05 \Omega)$	\pm 0.2 % or 0.05 Ω		
Damp Heat Humidity (Steady State)	56 days with low load	\leq ± (2 % + 0.1 Ω) Insulation resist. > 100 M Ω	\pm 0.5 % or 0.05 Ω Insulation resist. 10 6 M Ω		
Rapid Temperature Change	-55 °C +125 °C	\leq ± (0.5 % + 0.05 Ω)	\pm 0.1 % or 0.05 Ω		
Climatic Sequence	-55 °C +125 °C	\leq ± (2 % + 0.1 Ω) Insulation resist. > 100 M Ω	\pm 0.1 % or 0.05 Ω Insulation resist. 10 6 $M\Omega$		
Terminal Strength	Pull - twist - 2 bends	\leq ± (0.5 % + 0.05 Ω)	\pm 0.05 % or 0.05 Ω		
Vibration	10 Hz to 500 Hz	\leq ± (0.5 % + 0.05 Ω)	\pm 0.05 % or 0.05 Ω		
Soldering (Thermal Shock)	+260 °C, 10 s	\leq ± (0.5 % + 0.05 Ω)	\pm 0.1 % or 0.05 Ω		
Load Life	Cycle 90'/30' 1000 h at P _n at 70 °C	\leq ± (2 % + 0.1 Ω) Insulation resist. > 1 G Ω	\pm 0.5 % or 0.05 Ω Insulation resist. 10 6 $M\Omega$		
Shelf Life	1 year ambient temperature	-	\pm 0.1 % or 0.05 Ω		

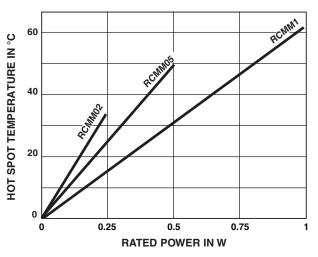
Note

• RC41: 15 s

POWER RATING



TEMPERATURE RISE



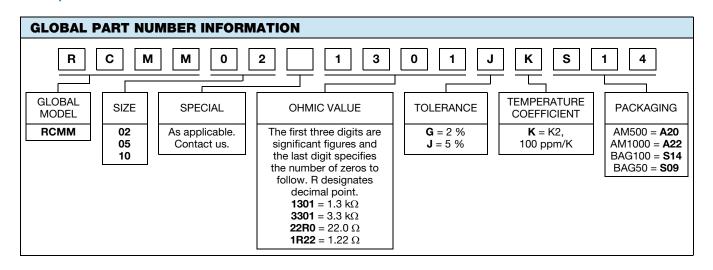
MARKING

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

Due to lack of space RCMM02 is printed MM02.

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