COMPLIANT

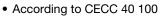


Molded Metal Film Resistors

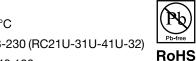


FEATURES

- 0.25 W to 1 W at 70 °C
- According to NF C 83-230 (RC21U-31U-41U-32)



- 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



DIMENSIONS in millimeters							
25 min.	A	25 min. ►	SERIES	A max.	Ø B max.	øс	WEIGHT in g
	•		RCMM02	6.5 ± 0.2	2.5 -0 -0.2	0.6	0.26
			RCMM05	10.2 ± 0.2	3.65 ± 0.1	0.6	0.46
	ØВ	ØС	RCMM1	16 ± 0.5	6.2 ± 0.2	0.8	1.30

STANDARD ELECTRICAL SPECIFICATIONS						
MODEL	RESISTANCE RANGE Ω	RATED POWER P _{70 °C} W	LIMITING ELEMENT VOLTAGE V	TOLERANCE ± %	TEMPERATURE COEFFICIENT ± ppm/°C	
RCMM02	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	

TECHNICAL SPECIFICATIONS							
VISHAY SFERNICE SERIES		RCM	1M02	RCMM05	RCMM1		
CECC 83-230 (for information	RC21U	RC32	RC31U	RC41U			
CECC 40 100-802 (for inform	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	Rated in the range -55 °C +155 °C	K2 ≤ ± 100 ppm/°C					
coefficient	Typical in the range -10 °C +70 °C	≤ ± 50 ppm/°C					
Insulation resistance (typical	$\geq 10^7 \text{M}\Omega (500 \text{V}_{DC})$						
Voltage coefficient	≤ ± 10 ppm/V						
Environmental specifications	-65 °C / +155 °C / 56 days						

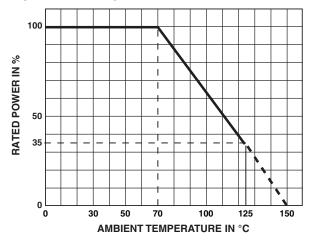


PERFORMANCE					
TESTS	CONDITIONS	REQUIREMENTS	TYPICAL VALUES AND DRIFTS		
Load life at max. category temperature	1000 h at 125 °C 35 % of P _n	\leq ± (2 % + 0.1 Ω) Insulation resist. > 1 G Ω	\pm 0.75 % or 0.05 Ω Insulation resist. 10 6 $\rm M\Omega$		
Short time overload	2.5 Un / 5 s Limited to 2 Um	\leq ± (0.5 % + 0.05 Ω)	\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 $\mathrm{M}\Omega$		
Rapid temperature change	-55 °C +125 °C	\leq ± (0.5 % + 0.05 Ω)	± 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. 106 ${\rm M}\Omega$		
Terminal strength	Pull - twist - 2 bends	\leq ± (0.5 % + 0.05 Ω)	± 0.05 % or 0.05 Ω		
Vibration	10 Hz to 500 Hz	\leq ± (0.5 % + 0.05 Ω)	± 0.05 % or 0.05 Ω		
Soldering (thermal shock)	+260 °C, 10 s	\leq ± (0.5 % + 0.05 Ω)	± 0.1 % or 0.05 Ω		
Load life	Cycle 90'/30' 1000 h at <i>P</i> _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 $\mathrm{M}\Omega$		
Shelf life	1 year ambient temperature	-	\pm 0.1 % or 0.05 Ω		

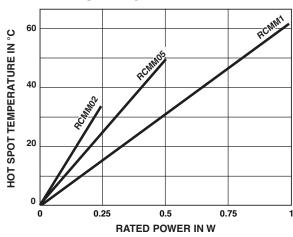
Note

• RC41: 15 s

POWER RATING

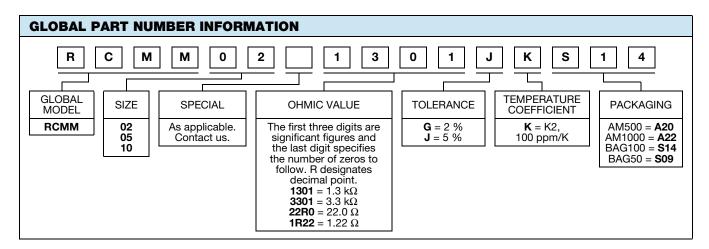


TEMPERATURE RISE



MARKING

Printed: Vishay Sfernice trademark, series, ohmic value (in Ω), tolerance (in %), temperature coefficient, manufacturing date. Due to lack of space RCMM02 is printed MM02.





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Vishay

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