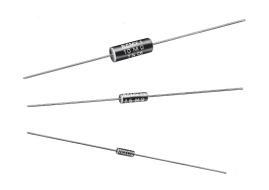


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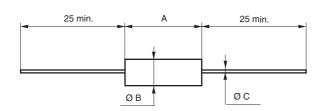
Molded Metal Film High Ohmic Value Resistors



FEATURES

- 0.125W to 0.5W at 70°C
- NF C 83-230
- CECC 40 100
- Resistance range: $300k\Omega$ to $50M\Omega$
- Good initial precision: up to ± 1%
- High stability
- · Accurate dimensions
- Good insulation
- · Limiting element voltages: 500V, 800V and 1200V

DIMENSIONS in millimeters



DIMEN- SIONS SERIES	Α	ØВ	ØС	UNIT WEIGHT IN g.
RCMX02	6.5 ± 0.2	2,5 -0 -0.2	0.6	0.26
RCMX05	10.2 ± 0.2	3.65 ± 0.1	0.6	0.46
RCMX1	16 ± 0.5	6.2 ± 0.2	0.8	1.30

TECHNICAL SPECIFICATIONS			
VISHAY SFERNICE SERIES	RCMX02	RCMX05	RCMX1
NF C / CECC 83-230	RS80	RS81 RS82	
Power Rating at 70°C	0.125W	0.250W 0.500W	
Resistance Value Range	300kΩ to 10MΩ	300 k Ω to 10 M Ω 1 M Ω to 20 M Ω 2 M Ω	
Tolerance and Associated Series	± 1% E96	± 1% E96	± 5% E24
Maximum Voltage	500V	800V	1200V
Critical Resistance	2ΜΩ	2.55ΜΩ	$2.87 \mathrm{M}\Omega$
Temperature Coefficient Rated in the Range – 55°C + 125°C	K3 ≤ ± 50ppm/°C		
Insulation Resistance (Typical)	≥ 10 ⁷ MΩ (500VDC)		
Voltage Coefficient	≤ 10ppm/Volt		
Environmental Specifications	- 65°C/+ 155°C/10 days		

Undergoes European Quality Insurance System (CECC) in ohmic value range 300kΩ - 2,2 MQ

RCMX 02, 05, 1

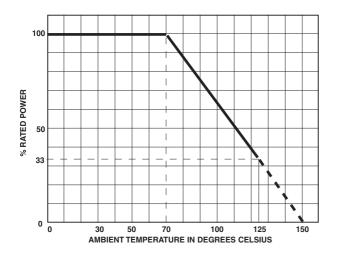
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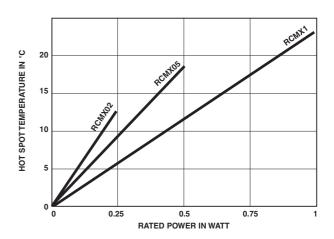


PERFORMANCE				
NF C	TYPICAL VALUES			
TESTS	CONDITIONS	REQUIREMENTS	AND DRIFTS	
Load Life at max. Category Temperature	1000 h at 125°C 33% of Pn	\leq ± 1% Insulation resist. >1G Ω	\pm 2% at 1000 h Insulation resist. 10 6 M Ω	
Short Time Overload	2.5Um/5s limited to 2Un	≤ ± 0.25%	± 0.5%	
Damp Heat Humidity (Steady State)	10 days with low load	\leq ± 1% Insulation resist. >10 ² M Ω	± 1.5%	
Rapid Temperature Change	– 55°C + 125°C	≤ ± 0.25%	± 0.25%	
Climatic Sequence	- 55°C + 125°C severity 1	\leq ± 1% Insulation resist. > 100M Ω	\pm 1% Insulation resist. 10 6 M Ω	
Terminal Strength	Pull - Twist - 2 bends	≤ ± 0.25%	± 0.05%	
Vibration	10 to 500Hz	≤ ± 0.25%	± 0.05%	
Soldering (Thermal Shock)	+ 260°C 10s	≤ ± 0.25%	± 0.1%	
Load Life	cycle 90'/30' 1000h at Pn at 70°C	\leq ± 1% Insulation resist. > 1G Ω	$\pm~0.5\%$ Insulation resist. $10^6 \mathrm{M}\Omega$	
Shelf Life	1 year ambient temperature	-	± 0.25%	

POWER RATING CHART



TEMPERATURE RISE



PRACTICAL OPERATING TOLERANCES

After 1000 hours load life at rated power 90'/30' cycles + 70° C ambient temperature, the typical total drifts, measured at + 70° C, are as follows:

Typical total drift = drift due to T.C. (K3) + life drift 0.5%.

Maximum deviation from rated ohmic value including ±1% manufacturing tolerance ≤ 1.5%.

MARKING

Printed: VISHAY SFERNICE trademark, series, style, ohmic value (in Ω), tolerance (in %), temperature coefficient, manufacturing date. **Due to lack of space RCMX02 is printed MX02.**

ORDERING INFORMATION						
RCMX	02		10M Ω	± 5%	К3	
SERIES	STYLE	SPECIAL DESIGN	OHMIC VALUE	TOLERANCE	TEMPERATURE COEFFICIENT	PACKAGING
		Method N° Optional				Optional

Legal Disclaimer Notice



Vishay

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