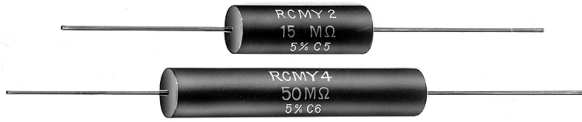


Molded Metal Film, High Ohmic Values High Voltage Resistors



The RCMY 2 and RCMY 4 resistors are particularly well suited for high voltage applications. The technology used ensures very good stability under the most severe and diverse operating conditions.

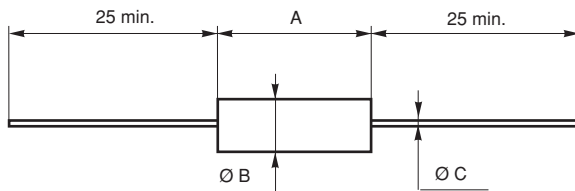
Due to their excellent performance, the RCMY2 and RCMY4

FEATURES

- 0.5W to 1W at 70°C
- NF C 93-230
- Very high ohmic values
- High insulation
- Accurate dimensions
- Great mechanical strength

are perfect for the design of high voltage and precision voltage divider networks. With two resistors only, voltage ratios of up to 10^{-8} can be achieved in a wide range of ohmic values. Higher ratios can be obtained with a combination of several resistors.

DIMENSIONS in millimeters



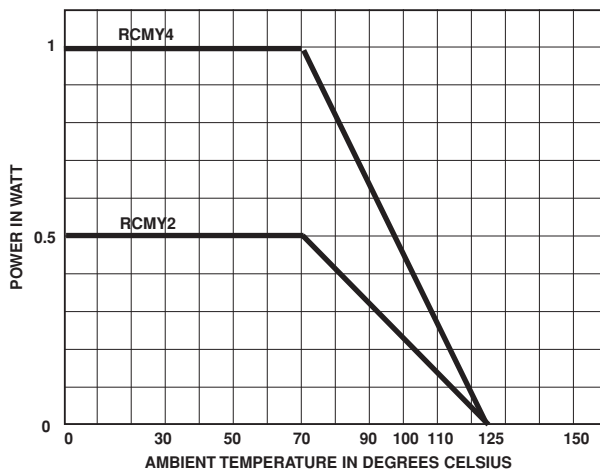
DIMENSIONS	A max.	Ø B max.	Ø C ± 0.1	WEIGHT IN G
SERIES RCMY2	29	10.2	0.8	4.4
RCMY4	54	10.2	0.8	13

TECHNICAL SPECIFICATIONS		
SFERNICE SERIES AND STYLES	RCMY2	RCMY4
Power Rating at 70°C (Pr)	0.5W	1W
Resistance Value Range	1MΩ to 100MΩ	1MΩ to 250MΩ
Resistance Tolerance	± 1% ± 2%	± 5%
Maximum Voltage	3kV	10kV
Temperature Coefficient	K2 ≤ ± 100ppm/°C	
Insulation Resistance (Typical)	> 10 ⁷ MΩ	
Critical Resistance	18MΩ	100MΩ

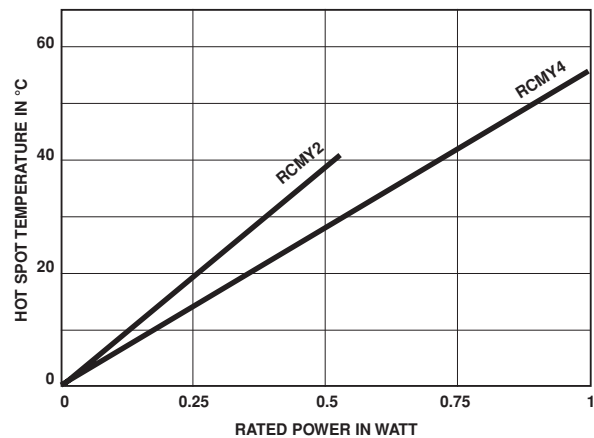


PERFORMANCE			
NF C 93-230			TYPICAL VALUES AND DRIFTS
TESTS	CONDITIONS	REQUIREMENTS	
Dielectric Voltage	4.5kV RMS	± 0.5%	< ± 0.1%
Short Time Overload	2.5 Um / 5 s limited to 2 Un	± 0.5%	± 0.1%
Load Life at max. Category Temperature	1000 h at 125°C 0% of Pn	± 2%	± 0.5 %
Damp Heat Humidity (Steady State)	56 days with low load	± 1.5% Insulation resist. >10 ³ MΩ	± 0.5% Insulation resist. >10 ⁷ MΩ
Rapid Temperature Change	- 55°C + 125°C	± 0.5%	± 0.1%
Climatic Sequence	- 55°C + 125°C severity 1	± 1% Insulation resist. >10 ³ MΩ	± 0.5% Insulation resist. >10 ⁷ MΩ
Terminal Strength	Pull - Twist - 2 bends	± 0.5%	± 0.05%
Vibration	Severity 55 B	± 0.5%	± 0.05%
Soldering (Thermal Shock)	+ 260°C 10 s	± 0.5%	± 0.1%
Load Life	cycle 90'/30' 1000 h at Pn at 70°C	± 1%	± 0.3%
Shelf Life	1 year @ ambient temperature	-	< ± 0.2% per year

POWER RATING CHART



TEMPERATURE RISE



NOISE

In a frequency decade, the average noise level is 0.2 μ V/V and can reach 0.5 μ V/V for the highest values.

VOLTAGE COEFFICIENT

<1 ppm/V.

PRACTICAL TOLERANCE FOR USE

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

Typical total drift = drift due to T.C. (K2) + life drift : <±0.8%.

Maximum deviation from rated ohmic value including 1% manufacturing tolerance ≤ ±1.8%.

**PACKAGING**

In box.

MARKING

Printed: SFERNICE trademark, series, style, ohmic value (in MΩ), tolerance (in %), manufacturing date.

ORDERING INFORMATION

RCMY	2		80MΩ	± 2%	
SERIES	STYLE	SPECIAL DESIGN	OHMIC VALUE	TOLERANCE	PACKAGING
		Method N° Optional			Optional