



Series CWR

The high power resistors from Miba ensure safe and reliable operation for PREcharge applications in battery distribution units and inverters.

Features

- Slim shape
- Robust design
- FAST-on connection
- Mounting clips as an option available (ask for details)



Technical Specifications

Items	Requirements	Methods
Terminal tensile strength	No mechanical damage	40 N for 30 s
Short time overload	$\leq \pm (2 \% R + 0.05 \Omega)$	10 PR, 5 s
Vibration	$\leq \pm (2 \% R + 0.05 \Omega)$	10 Hz - 1000 Hz, 0.75 mm, 200 m/s ²
Fast temperature change	$\leq \pm (2 \% R + 0.05 \Omega)$	-55 °C, 30 min / 125 °C, 30 min, 5 cycles
Constant damp-heat	$\leq \pm (2 \% R + 0.05 \Omega)$	40 °C $\pm$ 2 °C, 93 % $\pm$ 3 % rel. humidity

Model no.	Resistance value	Resistance tolerance	Temperature coefficient	Power rating	Operating voltage
CWR 30	10 Ω to 200 Ω	$\pm 5 \%$ to $\pm 10 \%$	± 500 ppm/°C	30 W at 25 °C Ta (360 s continuous operation)	600 V
CWR 50	10 Ω to 200 Ω	$\pm 5 \%$ to $\pm 10 \%$	± 500 ppm/°C	50 W at 25 °C Ta (210 s continuous operation)	1000 V

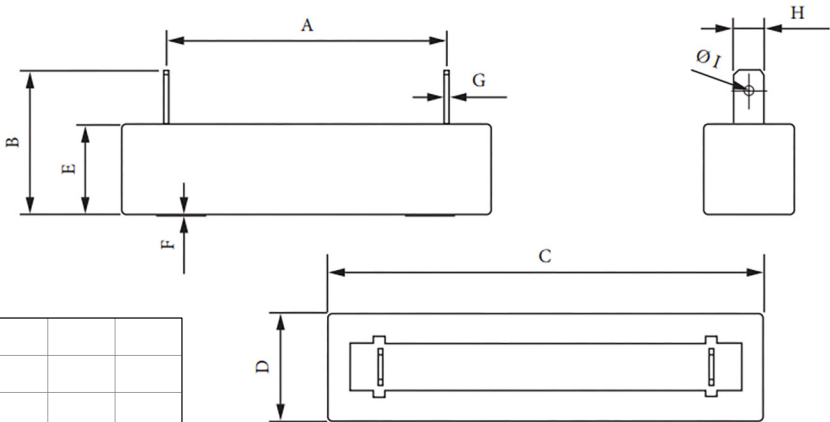
Dimensions in mm

Model no.	A ± 1.0	B ± 2.0	C ± 1.5	D ± 1.0	E ± 1.0	F ± 0.5	G ± 0.2	H ± 0.3	I ± 0.2
CWR 30	60.5	29	76.5	19	19	1	0.8	6.3	1.65
CWR 50	68	29	90	18.5	19	1	0.8	6.3	1.65

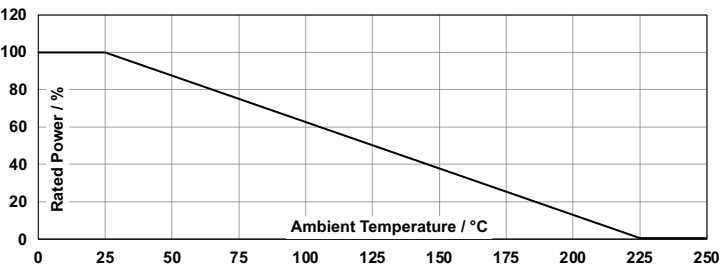
Typical Pulse Load

(initial resistor temperatur $\leq 85\text{ }^{\circ}\text{C}$)

CWR 30	CWR 50
360 J for $\tau = 0.1$ s	430 J for $\tau = 0.1$ s
470 J for $\tau = 0.2$ s	550 J for $\tau = 0.2$ s
740 J for $\tau = 0.5$ s	870 J for $\tau = 0.5$ s



Derating Curve





Disclaimer

The given statements and information herein are recommendations for the use of our products and are based on our experience in combination with applicable technical standards.

They are for guidance only and do not represent any assurance of characteristics or warranty commitments for the products or their suitability for specific applications.

The suitability of the products for the intended use by the user depends on different boundary conditions and influencing factors and is to be assessed exclusively by the user.

DISCLAIMER:

NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, IS MADE WITH RESPECT TO THE PRODUCTS, DESIGNS, DATA, INFORMATION DESCRIBED OR ANY INTELLECTUAL PROPERTY CONTAINED THEREIN. ANY WARRANTY OR GUARANTEE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS ALSO EXCLUDED.

The given statements and information herein reflect the current status at the time of publication.

Typing or printing errors cannot be excluded.

This publication shall not be reprinted or reproduced in whole or in part in any form or by any means without the express written permission of Miba Resistors.