

DataSheet No.: E21005

Version: V1

Date: 2026/6/05



ULVR

High Reliability Pre-charging Resistor

Resistance Range 5~200Ω

Power 100~200W

TCR ±250~±500ppm/°C



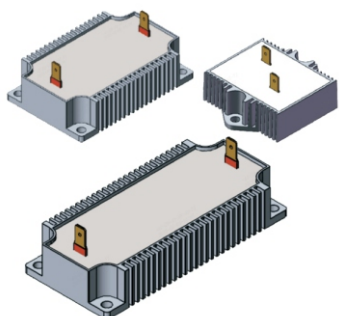
Applications

Motor control
Braking system
X-ray
Industrial communication
Automotive

**Better Solution for Sustainable
High End Manufacturing**

Automotive-Grade, Max Energy: 2500J~4000J

Easy Installation & High Stability



Introduction

ULVR series adopts non-flammable structure design and high-performance fillers, endowing the product with excellent moisture resistance and insulation characteristics. It operates stably in various complex environments, providing robust protection for equipment safety.

Featuring outstanding pulse-withstanding capability, the ULVR series can absorb a maximum energy of 2,500J to 4,000J within 0.5 seconds, while capably enduring short-term overloads and short circuits over extended periods.

Benefiting from its high thermal capacity, compact size, user-friendly installation, and high reliability, this series can meet the pre-charging requirements across various voltage classes (e.g., 400V/800V). As a result, the ULVR series is widely adopted as pre-charge resistor solution in electric vehicles.

Electrical Parameters

Series	Rated Power 70°C	Resistance Range	Tolerance	Max. Operating Voltage	Max. Energy	TCR +25°C~+105°C	Operating Temperature
ULVR100W	100W	10Ω~200Ω	±5%, ±10%	1000 V _{DC}	2500 J	±250ppm/°C	-55°C~+225°C
ULVR150W	150W	5Ω~200Ω	±5%, ±10%	1000 V _{DC}	3000 J	±500ppm/°C	-55°C~+225°C
ULVR200W	200W	5Ω~200Ω	±5%, ±10%	1000 V _{DC}	4000 J	±500ppm/°C	-55°C~+225°C

Part Number Information

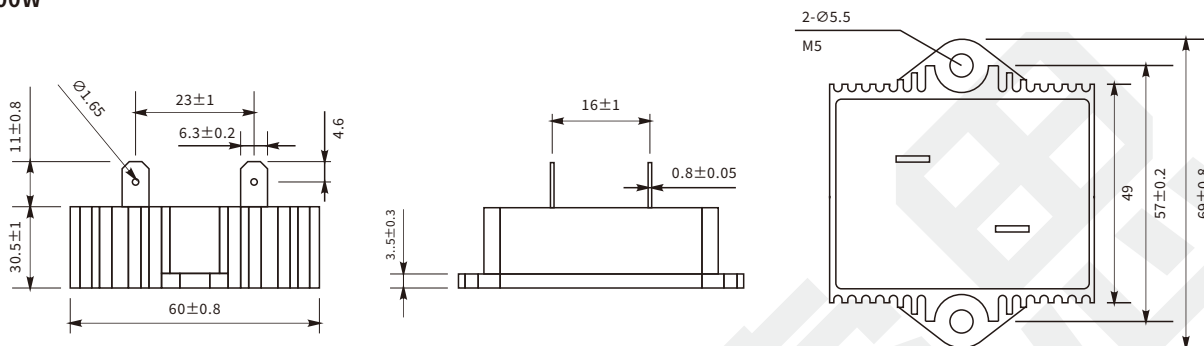
Example: ULVR100WJ10R0T9 (ULVR 100W ±5% 10Ω ±250ppm/°C Standard)

U	L	V	R	1	0	0	W	J	1	0	R	0	T	9
Series		Power rating		Tolerance		Resistance		TCR		Code				
ULVR		100W=100W 150W=150W 200W=200W		J=±5% K=±10%		5R00=5Ω 10R0=10Ω 200R=200Ω		T=±250ppm/°C U=±500ppm/°C		9=Standard				

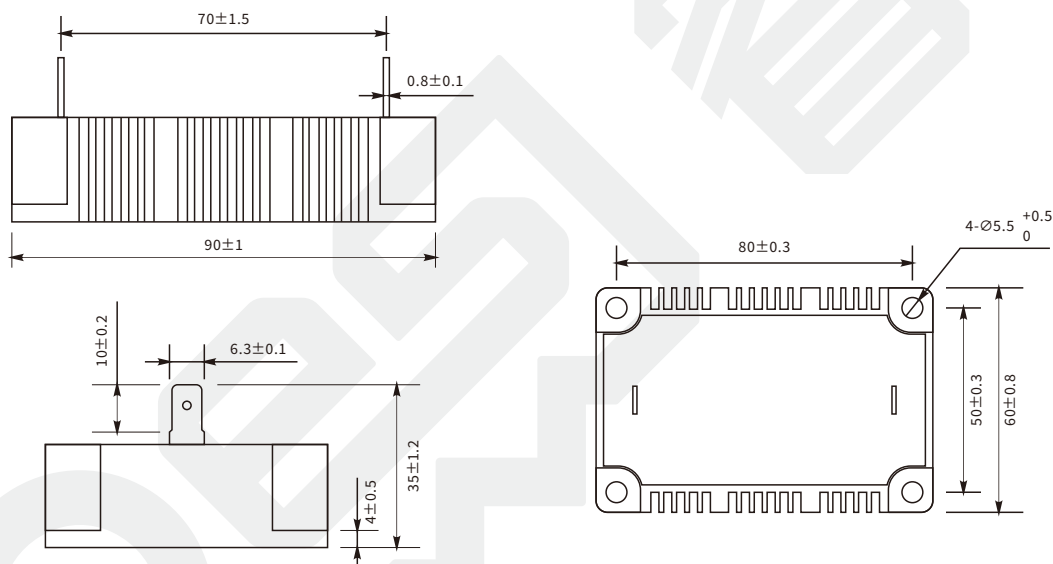
Dimensions

ULVR100W

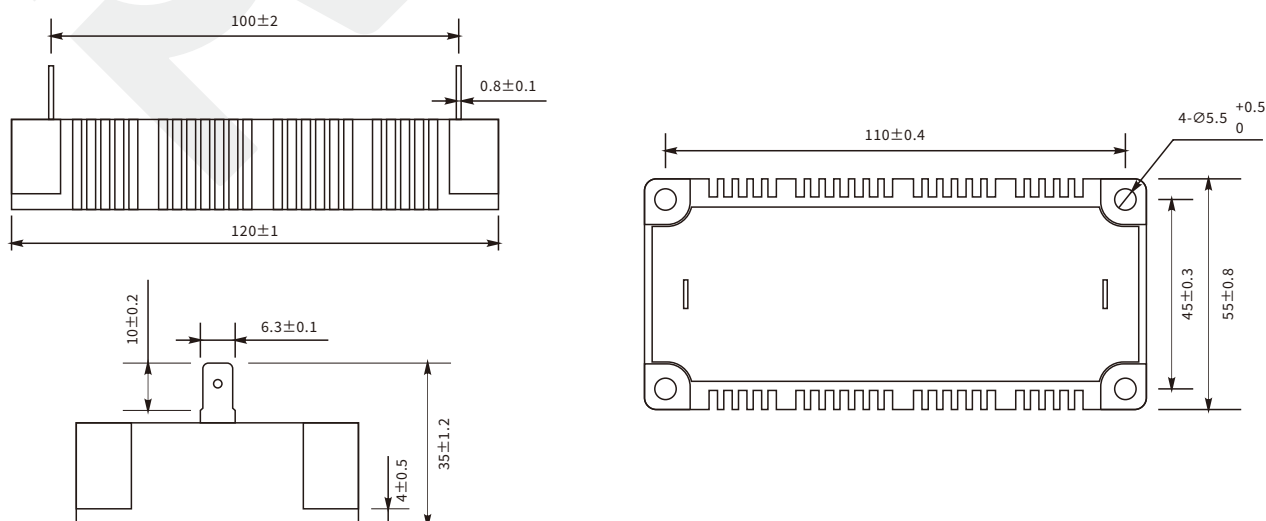
Unit:mm



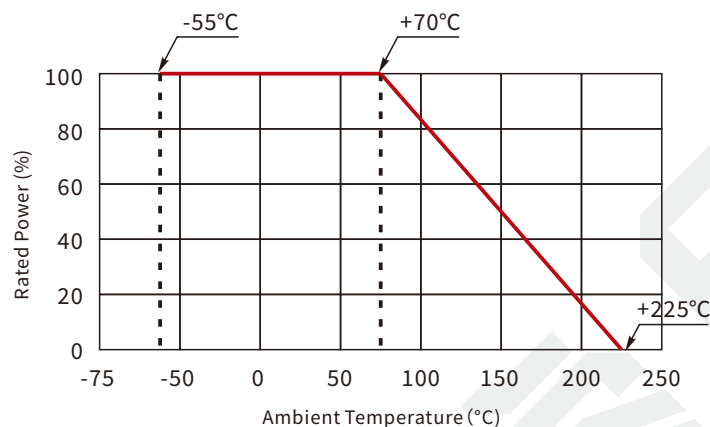
ULVR150W



ULVR200W



Derating Curve



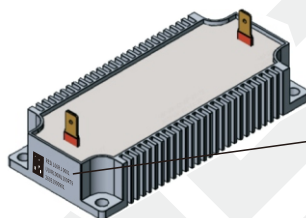
Marking

Size

Illustration

Demonstration

ULVR



RESI 100R J 0001
ULVR100WJ100RT9
26031900901

QR Code: Internal Traceability Code
RESI: Brand Identifier
100R: Resistance Value
J: Tolerance
0001: Identification Code
ULVR100WJ100RT9: P/N
26031900901: Lot No.

Revision

Version	Revised Content	Date	Approver
V0	Initial Issue	2025.6.19	CFD
V1	Product iteration & upgrade	2026.6.5	ZQF

Disclaimer

All products, datasheets and data can be changed without prior notice.

C&B Electronics Shenzhen CO., LTD., its affiliates, distributors, employees, and any other person acting on its behalf (collectively referred to as "C&B Electronics") shall not bear any legal responsibility for any errors, inaccuracies, or incompleteness of information related to the product disclosed under this agreement or other disclosures.

Product datasheet does not constitute an extension or revision of the purchase terms and conditions in C&B Electronics, including but not limited to the warranties under this agreement.

Unless specified in the purchase terms and conditions, C&B Electronics makes no guarantees, representations or warranties.

To the maximum extent permitted by applicable laws, C&B Electronics hereby makes the following disclaimer:

- (1) All liabilities arising from the use of the product;**
- (2) Including but not limited to all liabilities arising from special, indirect or incidental damages;**
- (3) All implied warranties, including warranties of suitability for special purposes, non infringement possibility, and marketability.**

The information provided in the datasheet and parameter tables may vary in different applications, and the performance of the product may change over time. The recommended application instructions for the product are based on C&B Electronics' understanding and experience of typical requirements. Customers are obligated to verify whether the product is suitable for a specific application based on the parameters provided in the datasheet. Before officially installing or using the product, you should ensure that you have obtained the latest version of relevant information, which can be obtained through the website: resistor.today.

The signing of this agreement does not constitute an express, implied or other form of license related to all intellectual property rights of C&B Electronic Products.

Unless explicitly stated, the products listed in this agreement are not applicable to lifesaving or life sustaining products. In the absence of a clear indication, the customer shall bear all risks caused by unauthorized use of the above products and agree to fully compensate C&B Electronics for all losses caused by such sales or use. For written product terms for such special applications, please contact authorized personnel from C&B Electronics to obtain.

The names and markings on the listed products may be trademarks owned by others.