

# Series EVR 250

The housing allows integration of two resistors. Ideal for active and passive DIScharge applications in automotive inverters.

## Features

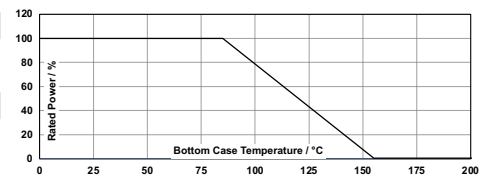
- Different PCB connection (FAST-ON, wire, press-fit, solder pins)
- Optional: active resistor, passive resistor, temperature sensor



## Technical Specifications

|                                        |                                                                                                                                |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Resistance value                       | 0.1 $\Omega$ to 1 M $\Omega$                                                                                                   |
| Resistance tolerance                   | $\pm 1\%$ to $\pm 10\%$                                                                                                        |
| Temperature coefficient                | $\pm 250$ ppm/ $^{\circ}\text{C}$<br>(referenced to 25 $^{\circ}\text{C}$ , $\Delta R$ taken at $\sim 85$ $^{\circ}\text{C}$ ) |
| Power rating                           | 250 W at 85 $^{\circ}\text{C}$ bottom case temperature                                                                         |
| Short time overload                    | 1.25x rated power at 85 $^{\circ}\text{C}$ bottom case temperature for 10 s, $\Delta R = 0.4\%$ max.                           |
| Operating voltage                      | 1000 V DC                                                                                                                      |
| Partial discharge                      | up to 2000 Vrms / 80 pC                                                                                                        |
| Dielectric strength                    | 4000 V DC                                                                                                                      |
| Insulation resistance                  | > 10 G $\Omega$ at 1000 V DC                                                                                                   |
| Isolation voltage between R1 & R2 & R3 | 500 V DC (1000 V DC on special request)                                                                                        |
| Thermal resistance                     | < 0.35 K/W                                                                                                                     |
| Serial inductivity                     | typical 40 nH, measuring frequency 10 kHz                                                                                      |
| Operating temperature                  | -55 $^{\circ}\text{C}$ to +155 $^{\circ}\text{C}$                                                                              |
| Mounting                               | 1.3 Nm to 1.5 Nm M4 screws                                                                                                     |
| Weight                                 | $\sim 23$ g                                                                                                                    |

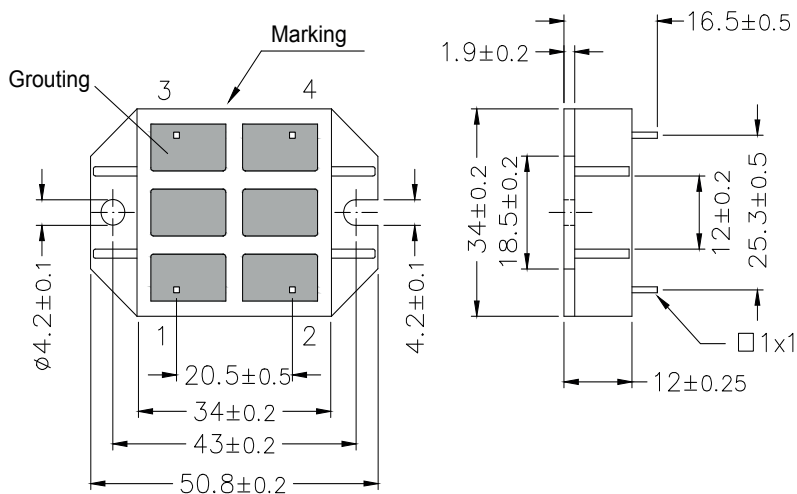
## Derating Curve



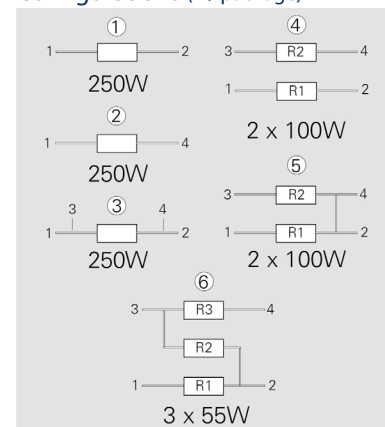
## Typical Pulse Load (initial resistor temperatur $\leq 85$ $^{\circ}\text{C}$ )

110 J for  $\tau = 0.1$  s  
150 J for  $\tau = 0.2$  s  
240 J for  $\tau = 0.5$  s

## Dimensions in mm



## Configurations (P / package)



Version 5: ohmic value between contact 2 and 4 approx. 3m $\Omega$



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