

Low Profile Power Resistor

Type CJB Series

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The CJB range of power resistors are aluminium housed and wire-wound, designed to withstand high adiabatic pulses in a compact package. These devices offer a high power dissipation capacity with the appropriate heatsink and superior environmental protection (IP64).

Tyco can test resistors to conform to relevant international MIL and customer specifications and will advise on the use of resistors for pulse applications.

Characteristics - Electrical

	CJB250	CJB500	CJB750	CJB1000
Power Rating Free Air (W):	100	150	200	250
Power Rating Mounted on Heatsink (W):	250	500	750	1000
Maximum Case Temperature (°C):	270			
Stability at Rated Power (1000hrs):	±6.5%			
Resistance Range (Ω):	1 – 30	1 – 60	1 – 100	1 – 130
Tolerances Available:	± 5%, ±10%			
Insulation Resistance @ 500V (GΩ):	>1.0			
Isolation Voltage (1 minute ACrms):	2.5kV			
Series Inductance @ 10kHz (mH):	<2.5	<4.5	<5.0	<13.0
Capacitance Terminal to Case @ 10kHz (pF):	<200	<300	<400	<500
Operating Temperature (°C):	-40 to +70			
Overload Rating:	20x Rated Power For 1 Second Every Minute			
Overload Rating:	4x Rated Power For 5 Seconds Every Minute			
Terminations:	Silicone Coated Flying Leads			
Storage Temperature (°C):	-40 to +270			
IP Rating:	64			
Case Finish:	Natural Anodised			
Heat Dissipation:	Although the use of proprietary heat sinks with lower thermal resistance is acceptable, up rating is not recommended. The use of proprietary heat sink compound to improve thermal conductivity is essential.			

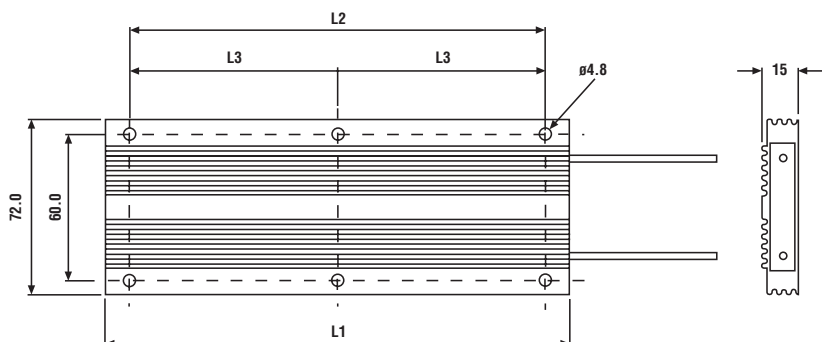
Key Features

- High Power Dissipation
 - 1000W for under 1kg
- Low Profile
 - Fits where other resistors don't
- IP64 Environmental Protection
 - Worldwide use in any industry
- High Pulse Capability
 - Fits today's dynamic braking requirements
- Overload 20 times rated power
 - Providing a size and cost effective solution

Applications

- Braking
- Capacitor Charging & Discharging
- Crowbar
- Filter
- Power Supplies
- Electrical Machinery

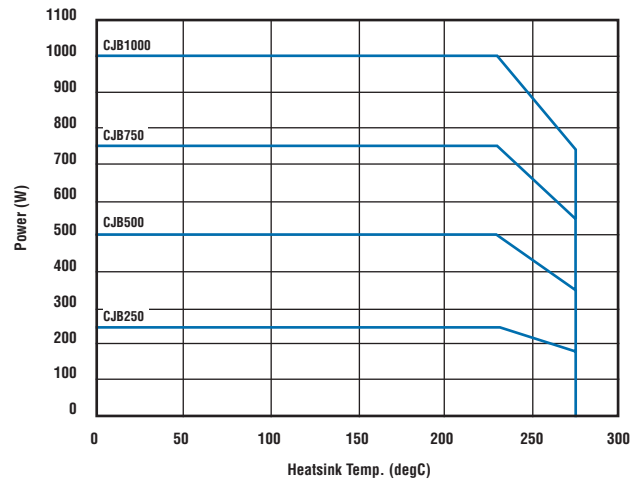
Dimensions



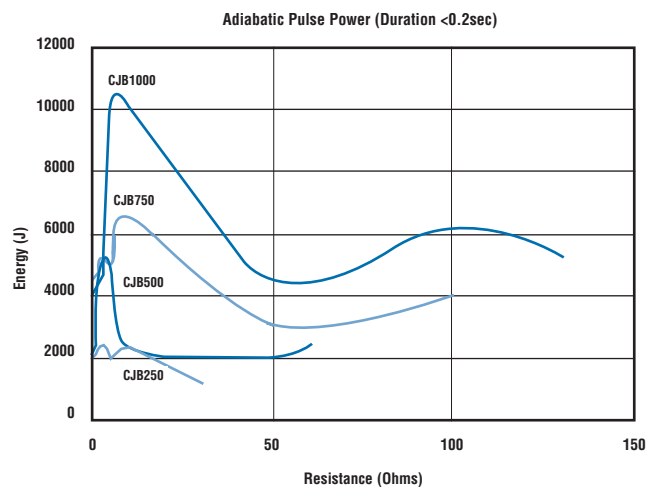
Type	L1	L2	L3
CJB250	110	90	-
CJB500	190	170	85
CJB750	270	250	125
CJB1000	350	330	165

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Derating Curves



Pulse Energy



How to Order
CJB

Common Part	Power Rating	Resistance Value	Tolerance
CJB - Low Profile Power Resistor	250 500 750 1000	2R0 1ohm (1000 mille ohms) 1R0	J - 5% K - 10%