

Type CJS Series

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Tyco Electronics is the leading European supplier of standard and custom designed mineral insulated resistors for general-purpose, drives and controls.

The CJS is a mineral filled power resistor in durable aluminium housing offering high performance as a braking resistor for large drives.

The high overload rating enables the absorption of high-energy pulses with a compact device.

A variety of terminations are available to meet customer requirements including Faston, terminals, butt splices etc.

Key Features

- **High Power Dissipation**
 - Up to 1000W with a heatsink, and 525W without
- **Unsurpassed Pulse Capability**
 - Large active element can absorb 18kJ
- **High Voltage Withstand**
 - Reliability at 3kV
- **High Stability**
 - Specify the CJS with complete confidence
- **10 Times Overload Rating**
 - A compact and cost effective solution

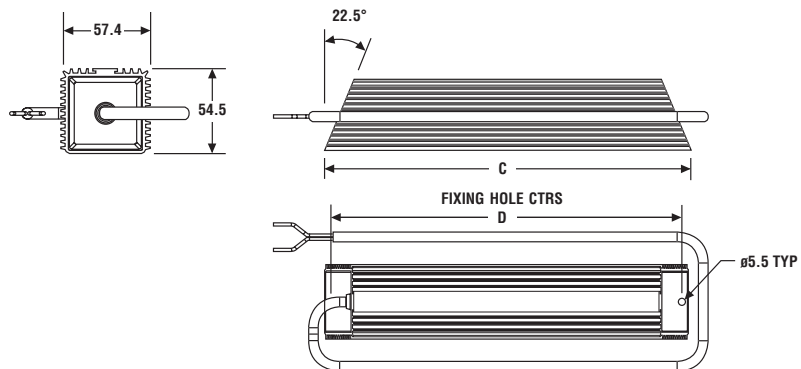
Applications

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

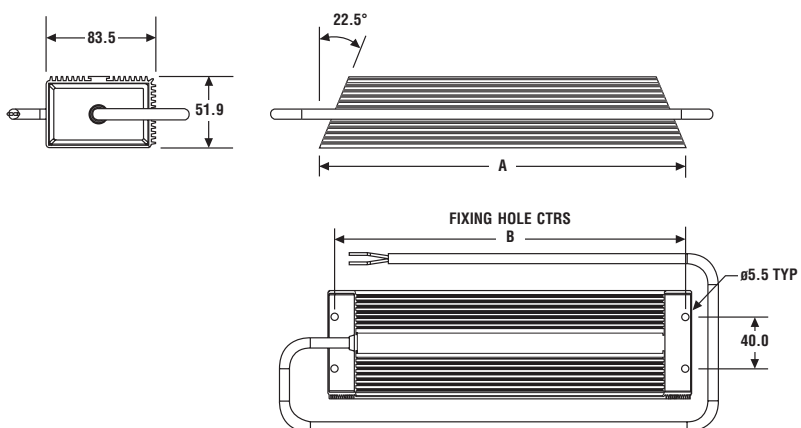
Characteristics - Electrical

	CJS275	CJS300	CJS550	CJS600	CJS700	CJS1000
Dissipation at 25°C - With Heatsink (W):	275W	300W	550W	600W	700W	1000W
Without Heatsink:	175W	225W	325W	450W	525W	525W
Ohmic Value - Min (Ω):	1R0	1R0	2R0	2R0	2R0	2R0
Max:	7k5	13k	26k	32k	32k	36k
Maximum Working Voltage - DC/ACrms (Volts):	3kV	3kV	3kV	3kV	3kV	3kV
Dielectric Strength - AC peak (Volts):	5kV	5kV	5kV	5kV	5kV	3.5kV
Capacitance to Ground:	35pF	60pF	115pF	122pF	165pF	165pF
Insulation Resistance (Ω):	> 100M at 500V					
Stability - % Resistance Change, 1000 hours (%):	<5%	<5%	<5%	<5%	<5%	<5%
Standard Heatsink:	Liquid Cooled (75°C max) 0.24°C/W					
Weight (g):	990	1450	2125	2590	3675	3675
Cable Length:	1m					
Mounting:	Vertical					
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.					

Dimensions - CJS300 / CJS275

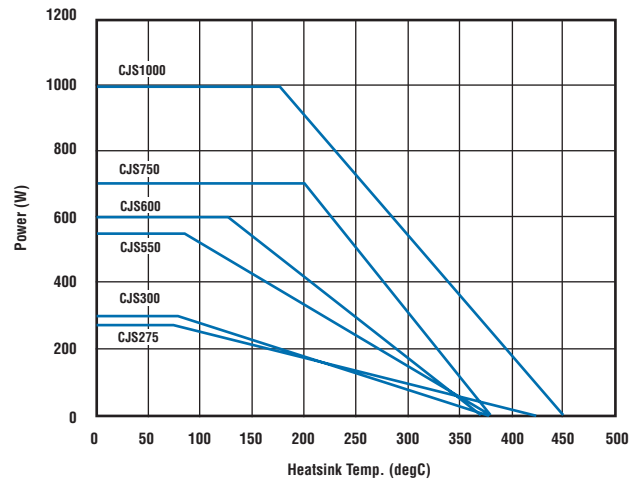


Dimensions - CJS1000 / CJS700 / CJS600 / CJS550

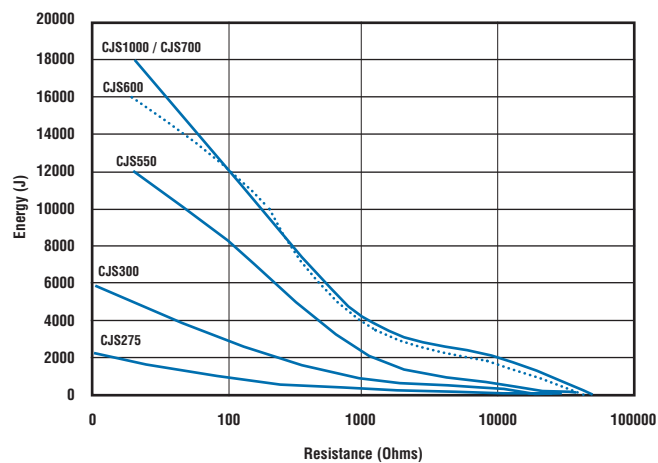


Type	A	B	C	D
CJS275	—	—	200	190
CJS300	—	—	280	270
CJS550	280	270	—	—
CJS600	340	330	—	—
CJS700	400	390	—	—
CJS1000	400	390	—	—

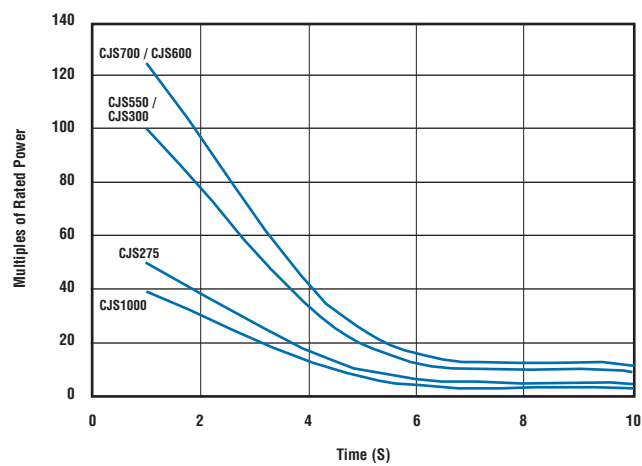
Derating Curve



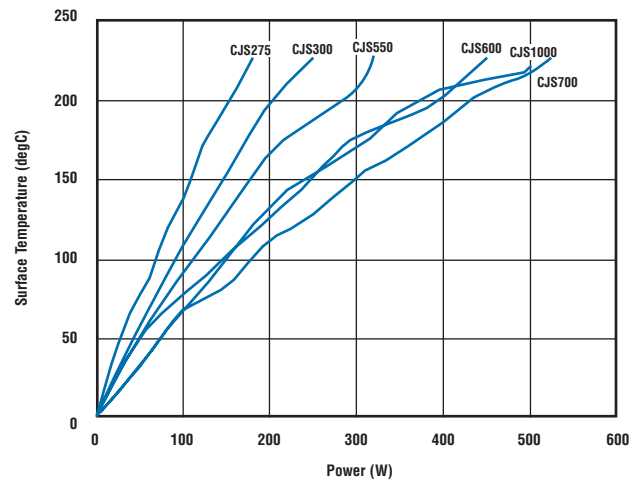
Pulse Energy



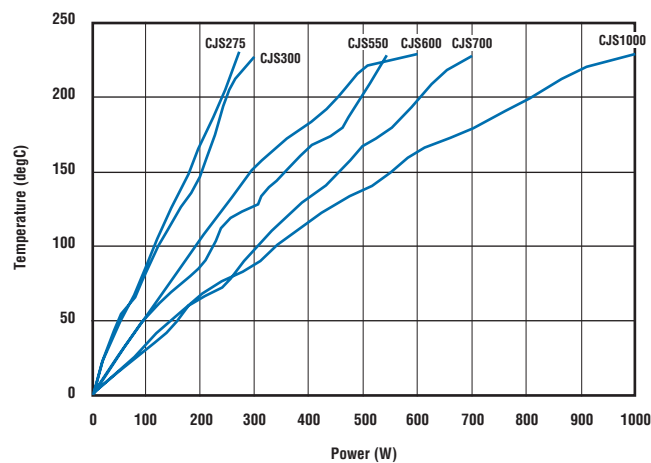
Power Overload



Surface Temperature Rise - In Free Air



Surface Temperature Rise - Heatsink



**How to Order
CJS**

Common Part
CJS - Aluminium Housed Power Resistor

275

Power Rating at 25°C wih Heat Sink
275
300
550
600
700
1000

680R

Resistance Value
0.1ohm (100mΩ) R10
1 ohm (1000mΩ) 1R0
1K (1000Ω) 1K0

J

Tolerance
J - 5%
K - 10%