

Type CJP Series

Key Features

Up to 1000W power rating

Aluminium enclosure

Vibration resistant

Applications

Power supplies

Inverters

Servo Motors and Drives

Warehouse Automation

Electrical systems in difficult environments



The CJP Series of resistors are an economical and compact aluminium housed resistor with good electrical stability and reliability. With power ratings up to 1000W they are suited to a range of electrical circuits including power supplies inverters and servo systems. With very good durability and mineral filled construction they are particularly good for braking and other pulse applications.

Characteristics - Electrical

Туре	CJP60	CJP80	CJP100	CJP120	CJP150	CJP200	CJP300
Rated Power (free air) W	60	80	100	120	150	200	300
Ohmic Value (Min.) Ω	0.2	0.5	1.0	6.0	6.0	0.5	0.5
Ohmic Value (Max.) Ω	20	1.0K	1.0K	1.0K	1.0K	1.0K	1.5K
Tolerance	5%						
Temperature Coefficient of Resistance (TCR)			±2	200РРМ/°С	Max.		
Short Term Overload	60W – 5 * Rated Power for 5 seconds >60W 10 * Rated Power for 5 seconds						
Limiting element voltage	600VAC / 850VDC						
Dielectric Strength	2500VAC 1 Minute						
Insulation resistance	100MΩ min.						
Operating Temperature	-25 ~ 250°C						
Max. Surface temp at rated power (free air)	250°C	260°C	275°C	275°C	280°C	300°C	350°C
Weight g.	155	190	225	260	295	510	690

Operating Voltage= $\sqrt{(P^*R)}$ or Max. operating voltage listed above, whichever is lower.

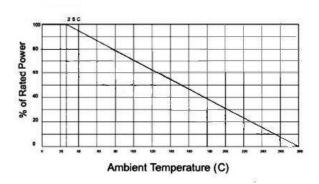


Characteristics – Electrical (continued)

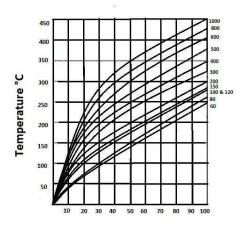
Туре	CJP400	CJP500	CJP600	CJP800	CJP1000
Rated Power (free air) W	400	500	600	800	1000
Ohmic Value (Min.) Ω	0.5	0.5	1.5	1.0	1.0
Ohmic Value (Max.) Ω	2.0K	2.0K	2.0K	2.0K	2.0K
Tolerance			!	5%	
Temperature Coefficient of Resistance (TCR)		±2	00PPM/°C	Max.	
Short Term Overload	60W – 5 * Rated Power for 5 seconds >60W 10 * Rated Power for 5 seconds				
Limiting element voltage	600VAC / 850VDC				
Dielectric Strength			2500VAC		
Insulation resistance	100MΩ min.				
Operating Temperature	-25 ~ 250°C				
Max. Surface temp at rated power (free air)	350°C	380°C	405°C	425°C	450°C
Weight g.	840	1100	1100	1340	1340

Operating Voltage= $\sqrt{(P^*R)}$ or Max. operating voltage listed above, whichever is lower.

Derating Curve



Temperature Rise

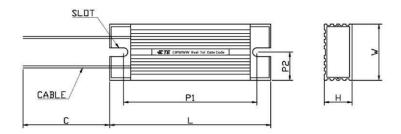




Environmental Characteristics

Characteristics	Limits	Test Methods
Insulation Resistance	Insulation resistance is $100M\Omega$ min.	Dry / Normal 500VDC
Dielectric Withstand Voltage	No evidence of flashover, mechanical damage, arcing, or insulation breakdown	2500VAC for 1 minute
Short Time Overload	ΔR ± (2% +0.05Ω) Max. with no evidence of mechanical damage	Permanent resistance change after the application voltage at ≤60W - 5 x Rated Power for 5sec >60W - 10 x Rated Power for 5 sec
Humidity	ΔR< ±(3% + 0.05Ω)	40°C, 90% Rh, 240Hrs
Load Life	$\Delta R \pm (2\% + 0.05\Omega)$ Max. with no evidence of mechanical damage	Permanent resistance change after 500 hours operating at RCWV with duty cycle of (1.5 hours "on", 0.5 hour "off") at room temperature
Vibration	No Mechanical or Electrical Damage	In accordance with IEC 60068-2-6 / Vibration Test as per IEC 61373:2010, Category 1, Class B

Dimensions (mm)



Model	L±1	W±1	H±1	C±5	P1±0.5	P2±0.5	Mounting Slot
CJP60	115	40	20	290	100	20	
CJP80	140	40	20	290	125	20	
CJP100	165	40	20	290	150	20	
CJP120	190	40	20	290	175	20	
CJP150	215	40	20	290	200	20	
CJP200	165	60	30	290	150	30	F v 10
CJP300	215	60	30	290	200	30	5 x 10
CJP400	265	60	30	290	250	30	
CJP500	335	60	30	290	320	30	
CJP600	335	60	30	290	320	30	
CJP800	400	60	30	290	385	30	
CJP1000	400	60	30	290	385	30	



Connection Cable

Termination Cables: UL Approved FEP cables for the terminations, based on the resistor current rating (see chart below) With E5 ring terminals

Current Rating	Cable Size used
≤ 15A	16 AWG
>15A & ≤25A	14 AWG
>25A & ≤35A	12 AWG

Marking:

TE CJPWWW Rval Tol Date Code

- 1 Company name or Logo
- 2 TE Series Number
- 3 Resistance Value
- 4 Tolerance
- 5 Date Code (YYWW)

Style of Marking – Laser

How To Order

CJP
Common
Part
CJP –
Aluminium
Housed
Power
resistor

	00
Powe	er Rating
60	60W
80	80W
100	100W
Etc.	

60

J
Tolerance
J - ±5%

	11/0
	Resistance Value
Ī	1 Ω- 1R0
	10Ω- 10R
	100Ω - 100R
	1000Ω (1ΚΩ)- 1Κ0
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1 R O

J
Connection
J - Lead

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TE Connectivity:

CJP1000J100RJ CJP1000J10RJ CJP1000J120RJ CJP1000J12RJ CJP1000J15RJ CJP1000J15RJ CJP1000J15RJ CJP1000J180RJ CJP1000J18RJ CJP1000J1K0J CJP1000J1K2J CJP1000J1K5J CJP1000J1K8J CJP1000J220RJ CJP1000J22RJ CJP1000J22RJ CJP1000J2RZJ CJP1000J2RZJ CJP1000J3RZJ CJP1000J330RJ CJP1000J33RJ CJP1000J390RJ CJP1000J39RJ CJP1000J3R3J CJP1000J3R3J CJP1000J3R9J CJP1000J47RJ CJP1000J47RJ CJP1000J68RJ CJP1000J68RJ CJP1000J68RJ CJP1000J68RJ CJP1000J68RJ CJP1000J68RJ CJP1000J68RJ CJP100J10RJ CJP100J10RJ CJP100J10RJ CJP100J12RJ CJP100J15RJ CJP100J18RJ CJP100J18RJ CJP100J1R0J CJP100J1R0J CJP100J1R0J CJP100J1R0J CJP100J1R0J CJP100J1R0J CJP100J1R0J CJP100J2RZJ CJP100J2RZJ CJP100J2RZJ CJP100J3R3J CJP120J1RJ CJP120J1RJ CJP120J1RJ CJP120J1RJ CJP120J1RJ CJP120J1RJ CJP120J1RJ CJP120J1RJ CJP120J1RJ CJP120J3RJ CJP120J3RRJ CJP120J3RRJ