ALUMINIUM ENCLOSED RESISTOR

TYPE CJH SERIES

INTRODUCTION

TE Connectivity (TE)'s CJH Series of resistors are an economical and compact aluminium housed resistor with good electrical stability and reliability. With very good durability and mineral filled construction they are particularly good for braking and other pulse applications.

FEATURES

- Aluminium enclosure
- Vibration resistant

APPLICATIONS

- Power supplies
- Inverters
- Servo Motors and Drives
- Warehouse Automation
- Electrical systems in difficult environments

ELECTRICAL CHARACTERISTICS

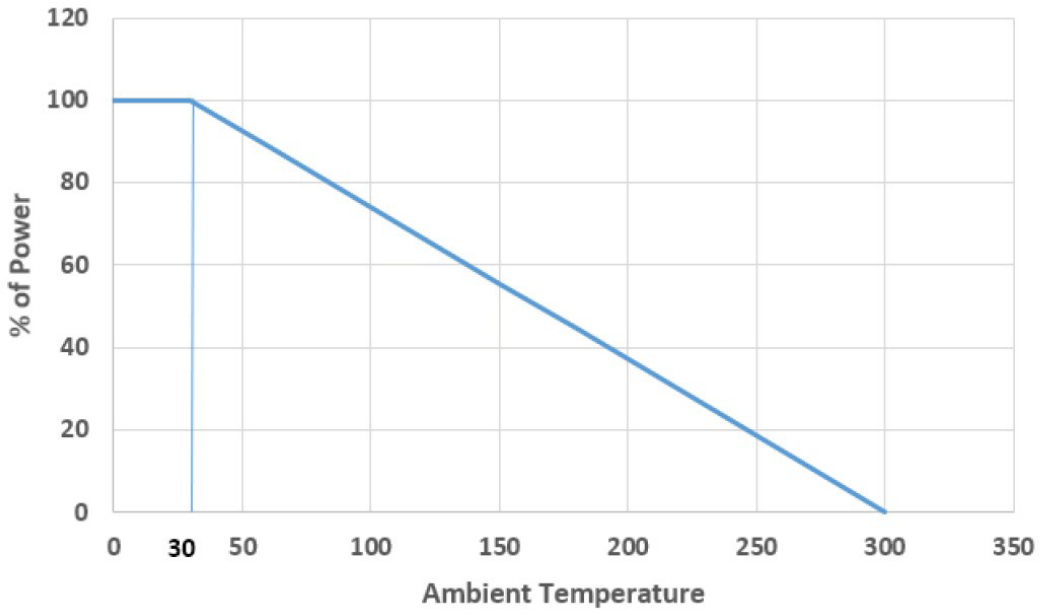
Type	CJH1250	CJH1500	CJH2000	CJH3000	CJH4000	CJH5000
Rated Power (free air) W	440	530	600	600	600	650
Rated Power (Heat sink) W	950	1100	1100	1100	1500	1200
Ohmic value (Min.) Ω	2.0	6.0	10	10	18	20
Ohmic value (Max.) Ω	2.0K	2.0K	1.0K	1.2K	1.8K	2.2K
Tolerance	5%					
Temperature coefficient of resistance (TCR)	±200PPM/°C Max.					
Short term overload	10 x Rated Power for 5 Seconds					
Limiting element voltage	600V AC/ 850V DC					
Dielectric strength	3kVAC					
Insulation resistance	>1000MΩ @500VDC					
Operating temperature	-25 ~ 250°C					
Weight (g)	2000	2100	3500	3500	4160	4860

Operating Voltage=√(P*R) or Max. operating voltage listed above, whichever is lower.

ENVIRONMENTAL CHARACTERISTICS

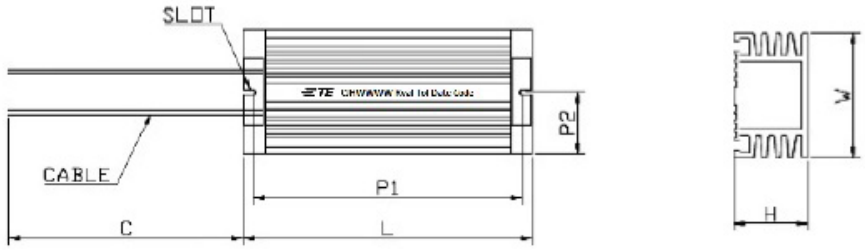
Characteristics	Limits	Test Methods
Insulation Resistance	Insulation resistance is 100MΩ min.	Dry / Normal 500VDC
Dielectric Withstand Voltage	No evidence of flashover, mechanical damage, arcing, or insulation breakdown	3000VAC for 1 minute
Short Time Overload	ΔR ± (2% +0.05Ω) Max. with no evidence of 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	ΔR ± (2% +0.05Ω) 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

DERATING CURVE

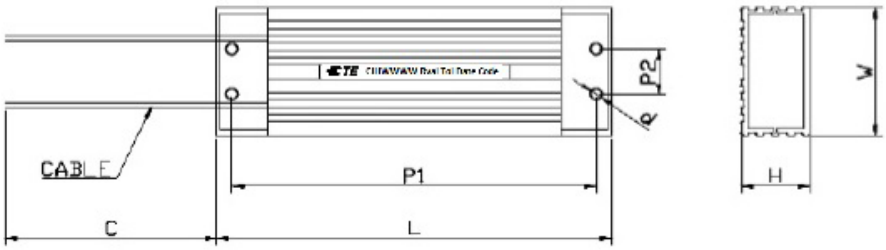


DIMENSIONS (Unit:mm)

CJH1250 / 1500



CJH2000 – CJH5000



Model	L±1	W±1	H±1	C±1	P1±0.5	P2±0.5
CJH1250	400	67	38	290	385	-
CJH1500	495	67	38	290	480	-
CJH2000	400	103	52	290	390	40
CJH3000	400	103	52	290	390	40
CJH4000	450	103	52	290	440	40
CJH5000	550	103	52	290	540	40

MOUNTING

Model	Mounting Detail ±0.5
CJH1250	7 x 10 SLOT
CJH1500	7 x 10 SLOT
CJH2000	Holes Ø6mm
CJH3000	Holes Ø6mm
CJH4000	Holes Ø6mm
CJH5000	Holes Ø6mm

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 CJHWWWW Rval Tol Date Code

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

ORDERING INFORMATION

Part Number
CJH 2000 J 1K0 J

Common Part

CJH	Aluminium housed power resistor

Model No

1250
1500
2000

Connection

J	Lead

Resistance Value

1R0	1Ω
10R	10Ω
100R	100Ω
1K0	1000Ω (1KΩ)

Tolerance

J	±5%

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