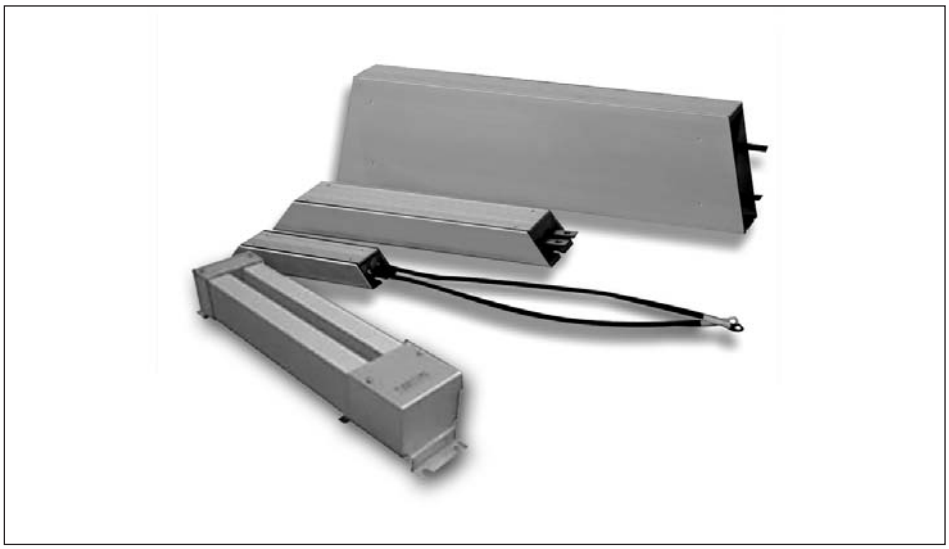
Type CJT Series

Key Features

- Modular versions available
- Environmental protection to IP54
- Up to 2000W power rating
- Aluminium enclosure
- Vibration resistant

Applications

- Power supplies
- Inverters
- Servo systems
- Electrical systems in difficult environments



TE Connectivity (TE) is a leading supplier of standard and custom-designed power resistors for industrial, control and general-purpose applications. The CJT Series of resistors are advantageous to conventional ceramic resistors in the terms of weather proofing, oscillation-resistance and safety. They are widely applied to a range of electrical circuits including power supplies, inverters and servo systems. With easy airtight fitting and the ability to fit a heatsink the resistor is highly suited to challenging environmental conditions.

Characteristics - Electrical

Type	CJT60	CJT80	CJT100	CJT120	CJT150	CJT200	CJT300
Rated Power in Free Air (W)	60	80	100	120	150	200	300
Ohmic Value - Min	1R0						
Ohmic Value Max	2K7						
Tolerance	5%						
Temp. Coefficient of Resistance	440ppm						
Resistor Element Max Working Voltage	1kV						
Dielectric Voltage	AC2.5kV/1min 50Hz						
Insulation Resistance (Megohm)	R≥100MΩ						
Max. Surface Temp. at Rated Power Free Air (°C)	206°C	221°C	254°C	267°C	286°C	306°C	334°C
Weight	150g	185g	240g	280g	300g	445g	600g
Termination	Lead						
Lead Length	500mm						
Lead Diameter	1.5mm						
Terminal Creep Distance	n/a						

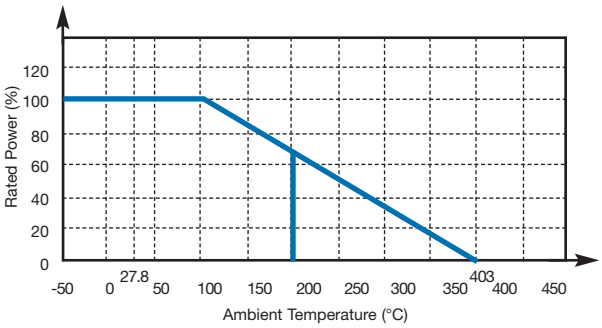
Type	CJT400	CJT500	CJT800	CJT1000	CJT1200	CJT1500	CJT2000
Rated Power in Free Air (W)	400	500	800	1000	1200	1500	2000
Ohmic Value - Min	1R0						
Ohmic Value Max	2K7						
Tolerance	5%						
Temp. Coefficient of Resistance	440ppm						
Resistor Element Max Working Voltage	1kV						
Dielectric Voltage	AC2.5kV/1min 50Hz						
Insulation Resistance (Megohm)	R≥100MΩ						
Max. Surface Temp. at Rated Power Free Air (°C)	370°C	358°C	311°C	372°C	406°C	419°C	453°C
Weight	765g	965g	1.18kg	3.46kg	3.885kg	4.31kg	4.89kg
Termination	Lead		Lead/Terminal				
Lead Length	500mm						
Lead Diameter	1.5mm		4mm				
Terminal Creep Distance	n/a		30mm	42mm	42mm	42mm	42mm

Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are standard equivalents.

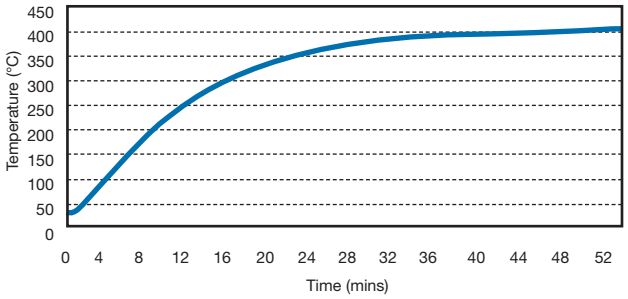
Dimensions are shown for reference purposes only. Specifications subject to change.

Type CJT Series

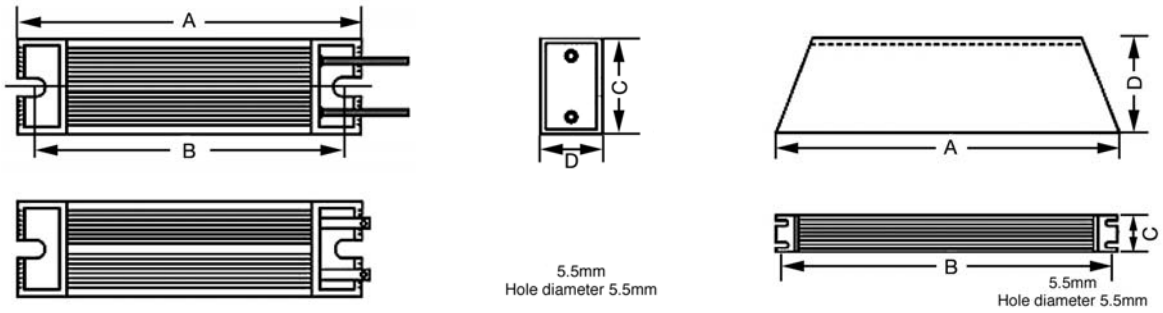
Derating Curve



Temperature Rise



Dimensions - CJT Series



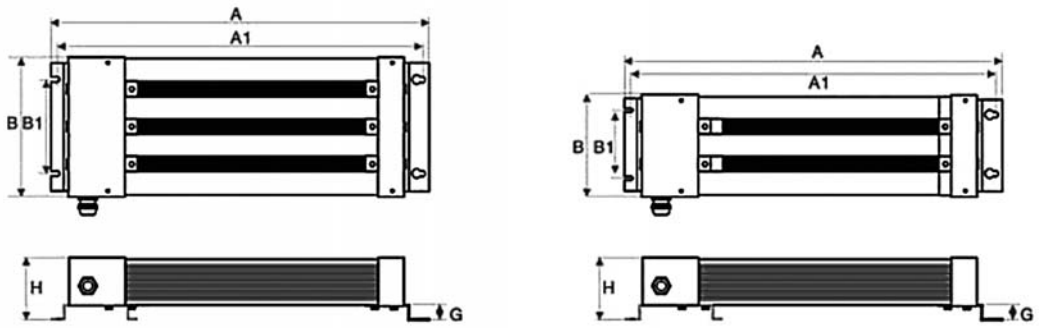
Rated Power (W)	Dimensions (mm)			
	A	B	C	D
60	115	98	40	20
80	140	123	40	20
100	165	148	40	20
120	190	173	40	20
150	215	197	40	20
200	165	147	60	30
300	215	197	60	30
400	265	247	60	30
500	335	317	60	30
800	400	382	61	59
1000	400	384	50	107
1200	450	434	50	107
1500	485	470	50	107
2000	550	532	50	107

Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are standard equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

Type CJT Series

Dimensions - CJTM Series



Type	Rated Power (W)	Resistance (Ω)		Dimensions (mm)						Connecting Wire (mm^2)	Lead Length (mm)
		Min	Max	A	A1	B	B1	G	H		
CJTM1U	200	1	2K7	268	253	64	30	20	54	2.5	500
CJTM1U	300	1	2K7	318	303	64	30	20	54	2.5	500
CJTM1U	400	1	2K7	368	353	64	30	20	54	2.5	500
CJTM1U	500	1	2K7	438	423	64	30	20	54	2.5	500
CJTM1U	600	1	2K7	503	488	64	30	20	54	2.5	500
CJTM2U	800	2	5K4	372	355	84	49	20	84	2.5	500
CJTM2U	1000	2	5K4	442	425	84	49	20	84	2.5	500
CJTM2U	1200	2	5K4	507	490	84	49	20	84	2.5	500
CJTM3U	1200	3	8K1	372	355	134	75	20	84	2.5	500
CJTM3U	1500	3	8K1	442	425	134	75	20	84	2.5	500
CJTM3U	1800	3	8K1	507	490	134	75	20	84	2.5	500
CJTM4U	1600	4	10K8	372	355	184	125	20	84	2.5	500
CJTM4U	2000	4	10K8	442	425	184	125	20	84	4	500
CJTM4U	2400	4	10K8	507	490	184	125	20	84	4	500
CJTM5U	2000	5	13K5	372	355	234	175	20	84	4	500
CJTM5U	2500	5	13K5	442	425	234	175	20	84	4	500
CJTM5U	3000	5	13K5	507	490	234	175	20	84	4	500

How to Order

CJT — **Common Part**
CJT - Single Aluminium Housed Power Resistors

60 — **Power Rating**
60 - 60 Watt
80 - 80 Watt
100 - 100 Watt
120 - 120 Watt
etc.

1K0 — **Resistance Value**
1 Ohm (1000 Milliohms) 1R0
10 Ohms (10 Ohms) 10R
100R Ohms (100 Ohms) 100R
1k Ohms (1000 Ohms) 1K0

J — **Tolerance**
J - ±5%

J — **Connection**
M - Terminal
J - Lead

CJTM — **Common Part**
CJTM - Multi Aluminium Housed Power Resistors

1U — **No. of Units**
1U - 1 Unit
2U - 2 Units
3U - 3 Units
4U - 4 Units
5U - 5 Units

200 — **Power Rating**
200 to 3000 Watts

1R0 — **Resistance Value**
1 Ohm (1000 Milliohms) 1R0
10 Ohms (10 Ohms) 10R
100R Ohms (100 Ohms) 100R
1k Ohms (1000 Ohms) 1K0

J — **Tolerance**
J - ±5%
K - ±10%

TE Connectivity, TE connectivity (logo) and TE (logo) are trademarks.
Other logos, product and Company names mentioned herein may be trademarks of their respective owners.

While TE has made every reasonable effort to ensure the accuracy of the information in this datasheet, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this datasheet are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult TE for the latest dimensions and design specifications.

Mouser Electronics

Authorized Distributor

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

TE Connectivity:
CJT20056RJJ