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Type BDS100 Series



With less than 40nH inductance and a 100Watt power rating in an easy-mounting 38mm x 25mm Isotop case, the BDS100 offers high power density over a wide range of ohmic values (R47 – 1M Ω) and benefits from 10 years experience in the field.

Available in 6 resistor configurations with 2 or 4 easy to connect terminals, the resistors are made from quality materials for optimum reliability and stability with very low partial discharge.

Tyco can test resistors to conform to relevant customer specifications, and will advise on the use of resistors for pulse energy and high voltage applications (HV designs available). Resistors with alternative terminations or flying leads are available, and custom designs are welcome.

This product is available via distribution.

Key Features

- **100W in a 9.5cm² footprint**
 - Gives an impressive power density of 10.5W/cm²
- **Virtually inductance-free**
 - Inductance < 40nH
- **Wide resistance range: 0.47 Ω to 1M Ω**
 - Coupled with 1% tolerance gives ultimate design flexibility
- **Multiple terminal configurations and multi-resistor packages**
 - The space saving solution
- **Partial discharge <10pC at 2kV**
 - Guaranteeing quality, reliability and long life

Type BDS100 Series

Characteristics - Electrical

Resistance Range:	R47 - 1M Ω	
Resistance Tolerance:	\pm 10%, 5% (Tighter by discussion)	
TCR:	R<1 Ω	\pm 250ppm/ $^{\circ}$ C
	R>1 Ω	\pm 150ppm/ $^{\circ}$ C
Rated Power:	Heatsink: 115 $^{\circ}$ C / 100 $^{\circ}$ C / 60 $^{\circ}$ C	25W / 50W / 100W
Capacitance:	Parallel	15pF
		To Earth 40pF
Series Inductance:	40nH (Maximum)	
Limiting Element Voltage:	(100W or Less)	500Vdc/ac rms
Isolating Voltage:	(Terminal to Heatsink)	2.5kVac rms
Single Shot Voltage:	1.5/50ms	4kV
Insulation Resistance:	(at 500V dc)	>100G Ω
Partial Discharge:	at 2kV	<10pC
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.	

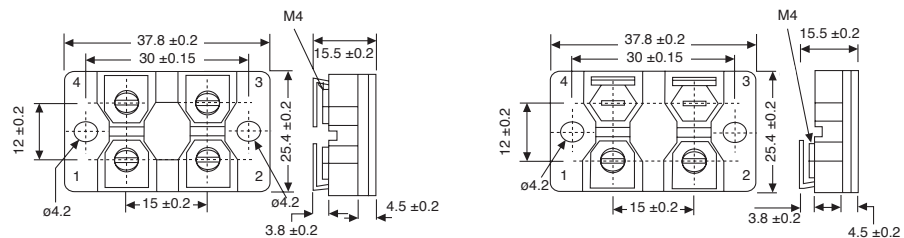
Characteristics - Environmental

Endurance (Rated Power):	2000cyc. at P _{Rated}	Δ R 0.25% Typ
Humidity Load Life:	56 Days, 40 $^{\circ}$ C, 95% RH	Δ R 0.25% Typ (I.R.>10G Ω)
Temperature Cycling:	-55 $^{\circ}$ C to +125 $^{\circ}$ C, 5cycles	Δ R 0.25% Typ
Operating Storage Temp:	-55 $^{\circ}$ C to +125 $^{\circ}$ C	
Short Term Overload:	3 x P _{Rated} (10s)	Δ R 0.25% Typ
Vibration:	10/500Hz	Δ R 0.25% Typ
Bump:	40g 4000 bumps	Δ R 0.25% Typ

Characteristics - Mechanical

Terminal Size:	M4	
Terminal Torque (max.):	1.3Nm	
Creepage Distance:	10mm	
Clearance:	Terminal to Heatsink	10mm
	Terminal to Terminal	3mm
Heatsink Surface Finish:	R ^a	< 6 μ m
Heatsink Flatness:	0.05mm	
Weight:	35g	

Dimensions



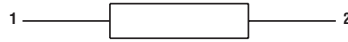
Applications

- Snubbing (Low inductance)
- Balancing Resistor (Multi-resistor package)
- Filter (Low inductance)
- High Voltage
- High Frequency

Type BDS100 Series (Continued)

Terminal Circuit Type

A (Standard)



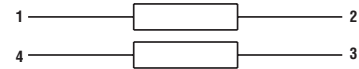
B (Voltage Sense)



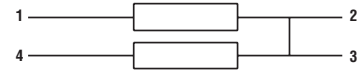
C (Special)



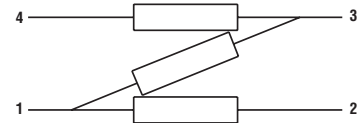
D (Isolated)



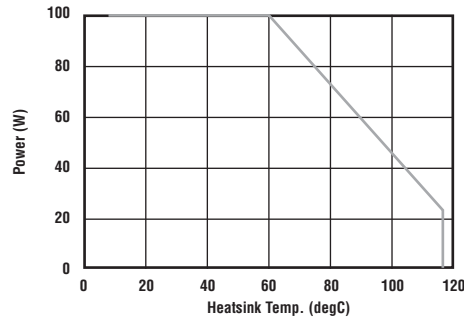
E (Network Tapped)



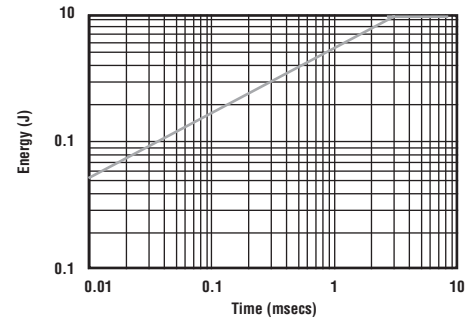
F (Network 3 Res.)



Derating Curve



Pulse Energy



How to Order

BDS 2	A	100	1K0	J
Common Part	Circuit Type	Power Dissipation	Resistance Value	Tolerance
BDS 2 (2 Terminal) BDS 4 (4 Terminal) BDH 2 (2Term. High Voltage) BDH 4 (4 Term. High Voltage)	A: Standard B-F: See above	100 - 100 Watts at 70°C	0.6Ω (600mΩ) R60 1Ω (1000mΩ) 1R0 1KΩ (1000Ω) 1K0 1MΩ (1000000Ω) 1M0	F - 1% J - 5% K - 10%

Type BDS250/400 Series
Type BDS250/400 Series


With less than 40nH inductance and a 250W or 400W power rating (100°C/70°C Heatsink) in a 67mm x 60mm casing, the BDS250/400 offers high power density over a wide range of ohmic values (0R47 – 1M Ω) and benefits from 10 years experience in the field.

Available in 5 resistor configurations with 2 or 4 easy to connect terminals, the resistors are made from quality materials for optimum reliability and stability with very low partial discharge.

Tyco can test resistors to conform to relevant customer specifications, and will advise on the use of resistors for pulse energy and high voltage applications (HV designs available).

Resistors with 1% tolerance, alternative terminations or flying leads are available, and custom designs are welcome.

This product is available via distribution.

Key Features

- **400W in a 40.2cm² footprint**
 - Gives an impressive power density of 10W/cm²
- **Virtually inductance-free**
 - Inductance < 40nH
- **Wide resistance range: 0.47 Ω to 1M Ω**
 - Coupled with 1% tolerance gives ultimate design flexibility
- **Multiple terminal configurations and multi-resistor packages**
 - The space saving solution for demanding creep and clearance requirements
- **Partial discharge <10pC at 7.5kV**
 - Guaranteeing quality, reliability and long life

Characteristics - Electrical

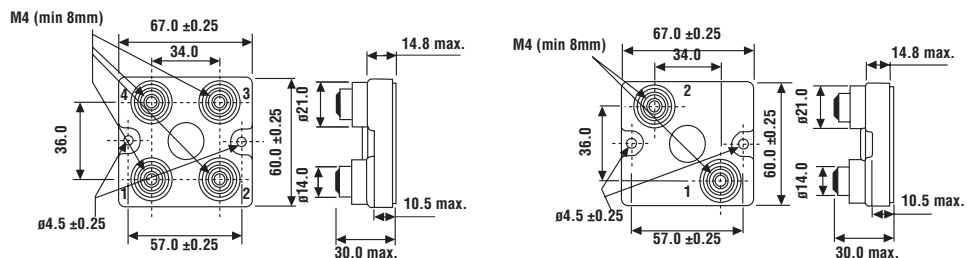
Resistance Range:		0R47 - 1M
Resistance Tolerance:		\pm 10%, 5% (Tighter by discussion)
TCR:	R<1 Ω	\pm 250ppm/ $^{\circ}$ C
	R>1 Ω	\pm 150ppm/ $^{\circ}$ C
Rated Power:	Heatsink: 100 $^{\circ}$ C / 70 $^{\circ}$ C	250W / 400W
Capacitance:	Parallel To Earth	40pF 160pF
Series Inductance:		40nH (Maximum)
Limiting Element Voltage:		5kV dc/ac rms
Isolating Voltage:	(Terminal to Heatsink)	7kV ac rms
Single Shot Voltage:	1.5/50ms	12kV
Insulation Resistance:	(at 500V dc)	>100G Ω
Partial Discharge:	at 7.5kV	<10pC
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.	

Characteristics - Environmental

Endurance (Rated Power):	Full Load, 1000h, 25 $^{\circ}$ C	Δ R 0.25% Typ
Humidity Load Life:	56 Days, 40 $^{\circ}$ C, 95% RH	Δ R 0.2% Typ (I.R.>10G Ω)
Temperature Cycling:	-55 $^{\circ}$ C to +125 $^{\circ}$ C, 5cycles	Δ R 0.2% Typ
Operating Storage Temp:	-55 $^{\circ}$ C to +125 $^{\circ}$ C	
Short Term Overload:	750W, 10s	Δ R 0.2% Typ
Vibration:	10/500Hz	Δ R 0.25% Typ
Bump:	40g 4000 bumps	Δ R 0.25% Typ

Characteristics - Mechanical

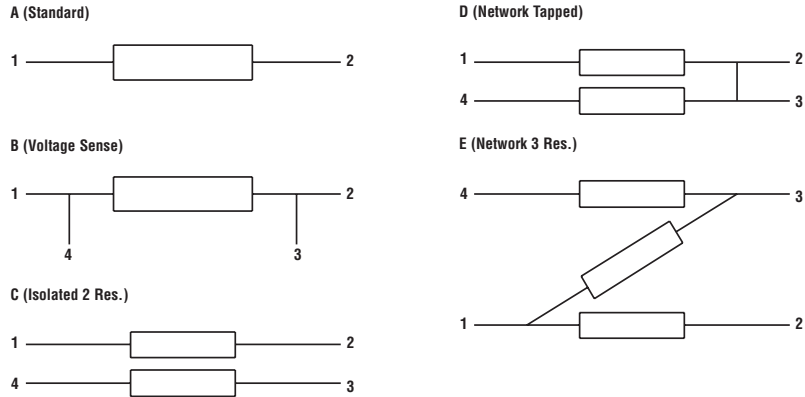
Terminal Size:		M4
Terminal Torque (max.):		1.3Nm
Creepage Distance:		40mm
Clearance:	Terminal to Heatsink Terminal to Terminal	28mm 40mm
Heatsink Surface Finish:	R ^a	< 6 μ m
Heatsink Flatness:		0.05mm
Thermal Grease:		Required
Weight:		190g

Dimensions

Applications

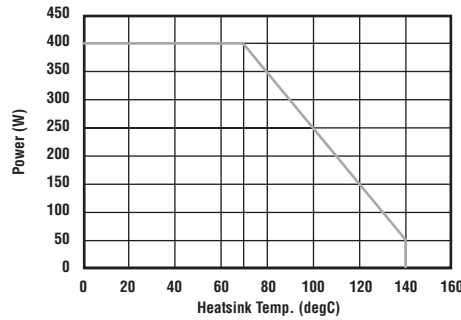
- Snubbing (Low inductance)
- Balancing Resistor (Multi-resistor package)
- Filter (Low inductance)
- High Voltage
- High Frequency

Type BDS250/400 Series (Continued)

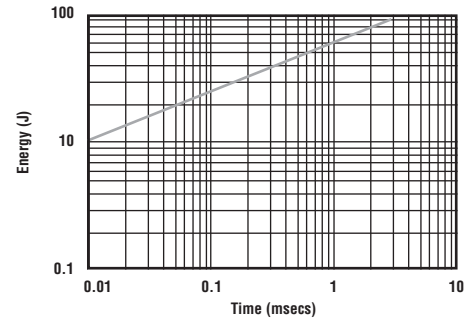
Terminal Circuit Type



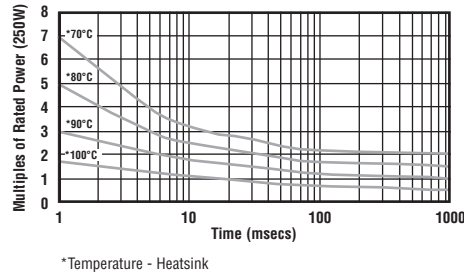
Derating Curve



Pulse Energy



Power Overload



How to Order

BDS 2	A	250/400	1K0	J
Common Part	Circuit Type	Power Dissipation	Resistance Value	Tolerance
BDS 2 (2 Terminal) BDS 4 (4 Terminal)	A: Standard B-E: See above	250 - 250 Watts 400 - 400 Watts	0.47Ω (470mΩ) R47 1Ω (1000mΩ) 1R0 1K (1000Ω) 1K0 1M (1000000Ω) 1M0	F - 1% J - 5% K - 10%

Type BDS250/400 Series



With less than 40nH inductance and a 250W or 400W power rating (100°C/70°C Heatsink) in a 67mm x 60mm casing, the BDS250/400 offers high power density over a wide range of ohmic values (0R47 – 1M Ω) and benefits from 10 years experience in the field.

Available in 5 resistor configurations with 2 or 4 easy to connect terminals, the resistors are made from quality materials for optimum reliability and stability with very low partial discharge.

Tyco can test resistors to conform to relevant customer specifications, and will advise on the use of resistors for pulse energy and high voltage applications (HV designs available).

Resistors with 1% tolerance, alternative terminations or flying leads are available, and custom designs are welcome.

This product is available via distribution.

Key Features

- **400W in a 40.2cm² footprint**
 - Gives an impressive power density of 10W/cm²
- **Virtually inductance-free**
 - Inductance < 40nH
- **Wide resistance range: 0.47 Ω to 1M Ω**
 - Coupled with 1% tolerance gives ultimate design flexibility
- **Multiple terminal configurations and multi-resistor packages**
 - The space saving solution for demanding creep and clearance requirements
- **Partial discharge <10pC at 7.5kV**
 - Guaranteeing quality, reliability and long life

Type BDS250/400 Series (Continued)

Characteristics - Electrical

Resistance Range:	0R47 - 1M	
Resistance Tolerance:	\pm 10%, 5% (Tighter by discussion)	
TCR:	R<1 Ω	\pm 250ppm/ $^{\circ}$ C
	R>1 Ω	\pm 150ppm/ $^{\circ}$ C
Rated Power:	Heatsink: 100°C / 70°C	250W / 400W
Capacitance:	Parallel To Earth	40pF 160pF
Series Inductance:	40nH (Maximum)	
Limiting Element Voltage:	5kV dc/ac rms	
Isolating Voltage:	(Terminal to Heatsink)	7kV ac rms
Single Shot Voltage:	1.5/50ms	12kV
Insulation Resistance:	(at 500V dc)	>100G Ω
Partial Discharge:	at 7.5kV	<10pC
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.	

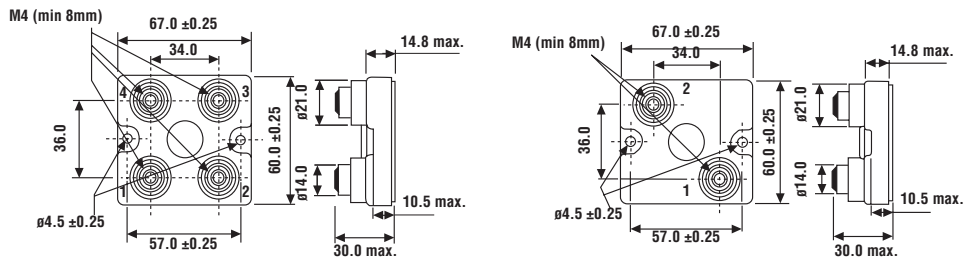
Characteristics - Environmental

Endurance (Rated Power):	Full Load, 1000h, 25°C	Δ R 0.25% Typ
Humidity Load Life:	56 Days, 40°C, 95% RH	Δ R 0.2% Typ (I.R.>10G Ω)
Temperature Cycling:	-55°C to +125°C, 5cycles	Δ R 0.2% Typ
Operating Storage Temp:	-55°C to +125°C	
Short Term Overload:	750W, 10s	Δ R 0.2% Typ
Vibration:	10/500Hz	Δ R 0.25% Typ
Bump:	40g 4000 bumps	Δ R 0.25% Typ

Characteristics - Mechanical

Terminal Size:	M4	
Terminal Torque (max.):	1.3Nm	
Creepage Distance:	40mm	
Clearance:	Terminal to Heatsink Terminal to Terminal	28mm 40mm
Heatsink Surface Finish:	R ^a	< 6 μ m
Heatsink Flatness:	0.05mm	
Thermal Grease:	Required	
Weight:	190g	

Dimensions

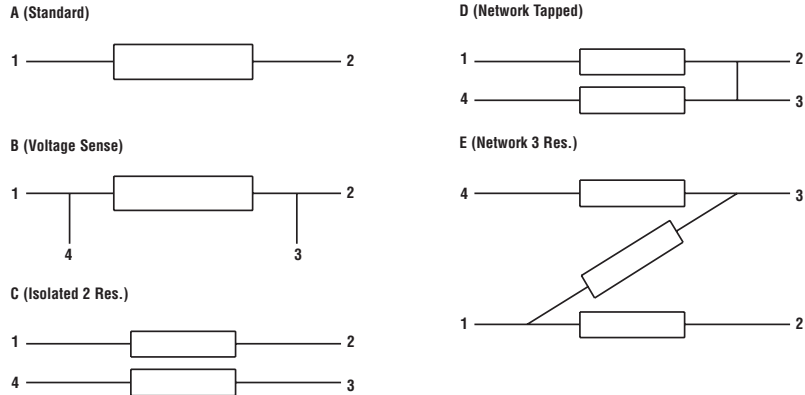


Applications

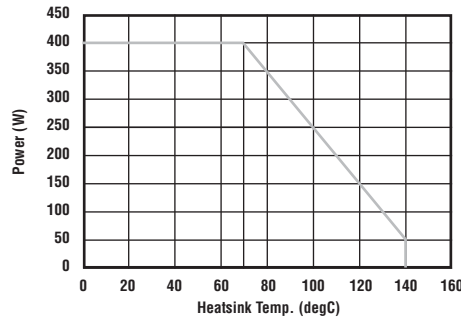
- Snubbing (Low inductance)
- Balancing Resistor (Multi-resistor package)
- Filter (Low inductance)
- High Voltage
- High Frequency

Type BDS250/400 Series (Continued)

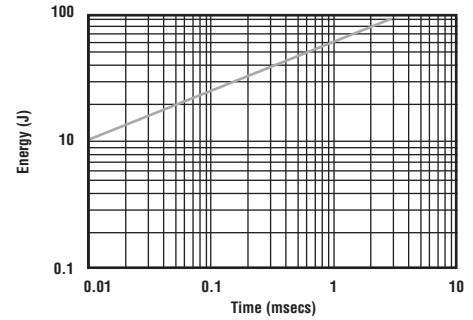
Terminal Circuit Type



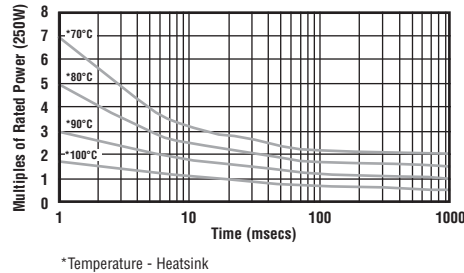
Derating Curve



Pulse Energy



Power Overload



How to Order

BDS 2	A	250/400	1K0	J
Common Part	Circuit Type	Power Dissipation	Resistance Value	Tolerance
BDS 2 (2 Terminal) BDS 4 (4 Terminal)	A: Standard B-E: See above	250 - 250 Watts 400 - 400 Watts	0.47Ω (470mΩ) R47 1Ω (1000mΩ) 1R0 1K (1000Ω) 1K0 1M (1000000Ω) 1M0	F - 1% J - 5% K - 10%

Type CJB Series



The CJB range of power resistors are aluminum housed and wirewound, 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.

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

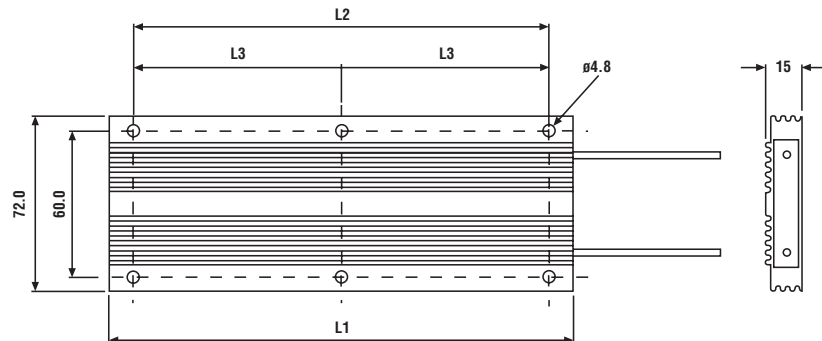
- Braking
- Capacitor Charging & Discharging
- Crowbar
- Filter
- Power Supplies
- Electrical Machinery

Type CJB Series

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.			

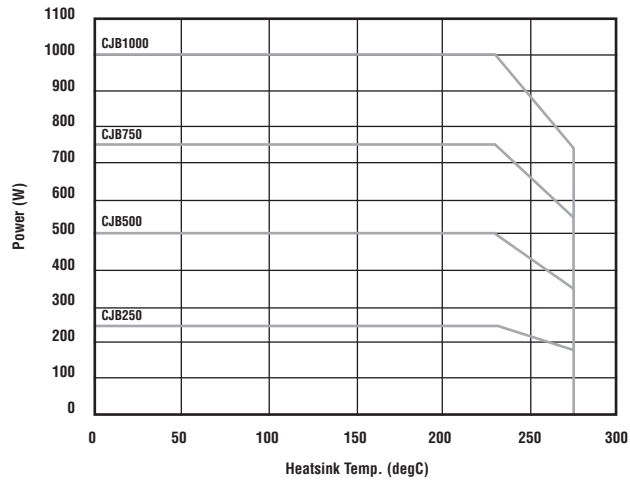
Dimensions



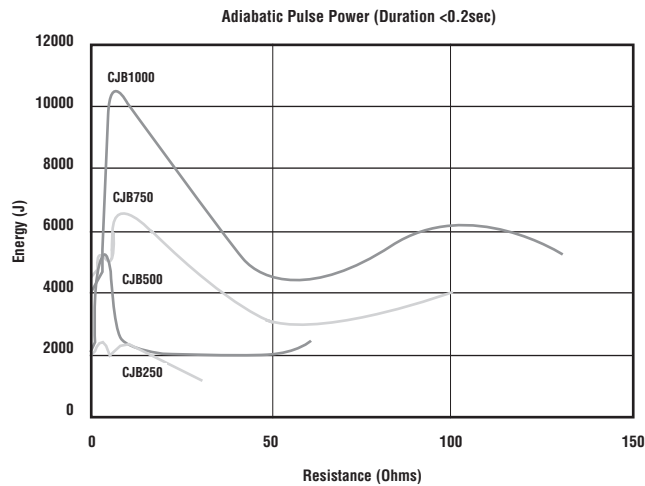
Type	L1	L2	L3
CJB250	110	90	-
CJB500	190	170	85
CJB750	270	250	125
CJB1000	350	330	165

Type CJB Series (Continued)

Derating Curves



Pulse Energy



How to Order

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

Type CJR Series

Type CJR Series



The CJR range of power resistors are aluminum 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 heat sink and superior environmental protection (IP64). The product is silicone free for specific use on assembly cells within the automotive assembly industry.

Key Features

- **High Power Dissipation**
 - 1000W in a 15mm package
- **Low Profile**
 - Fits where other resistors cannot
- **IP64 Environmental Protection**
 - World-wide use in any industry
- **High Pulse Capability**
 - Fits today's dynamic breaking requirements
- **Overload 20 Times Rated Power**
 - A compact and cost effective solution
- **Silicone-Free**
 - Designed for automotive assembly lines

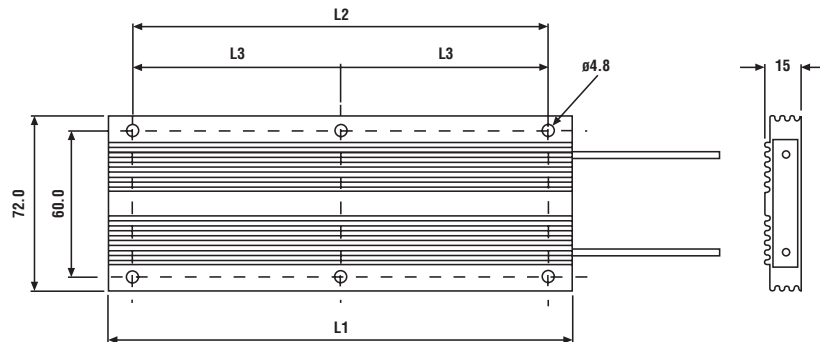
Applications

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

Characteristics - Electrical

	CJR250	CJR500	CJR750	CJR1000
Power Dissipation Free Air (W):	100	150	200	250
Power Dissipation Mounted on Heatsink (W):	250	500	750	1000
Ohmic Value Min (Ohms):	1Ω	1Ω	2Ω	2Ω
Max:	30Ω	60Ω	100Ω	130Ω
Resistance Tolerance (%):	5%, 10%	5%, 10%	5%, 10%	5%, 10%
Maximum Case Temperature (°C):	270	270	270	270
Stability at Rated Power - 1000hr's (%):	±6.5%	±6.5%	±6.5%	±6.5%
Insulation Resistance @500V (GΩ):	>1.0	>1.0	>1.0	>1.0
Isolation Voltage - 1min AC rms (kV):	2.5kV	2.5kV	2.5kV	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 Range (°C):	-40 to 75	-40 to 75	-40 to 75	-40 to 75
Overload Ratings:	20 x Rated power for 1 second every minute 4 x Rated power for 5 seconds every minute			
Terminations:	PTFE / ETFE coated flying leads (to BS6360)			
Storage Temperature Range (°C):	-40 to 270			
IP Rating:	IP6			
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.			

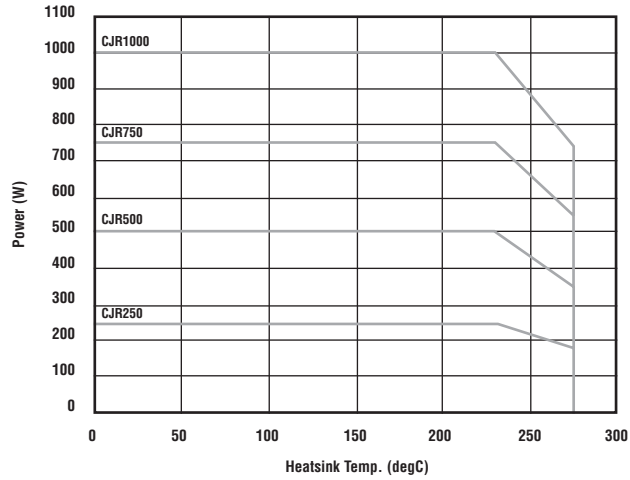
Dimensions



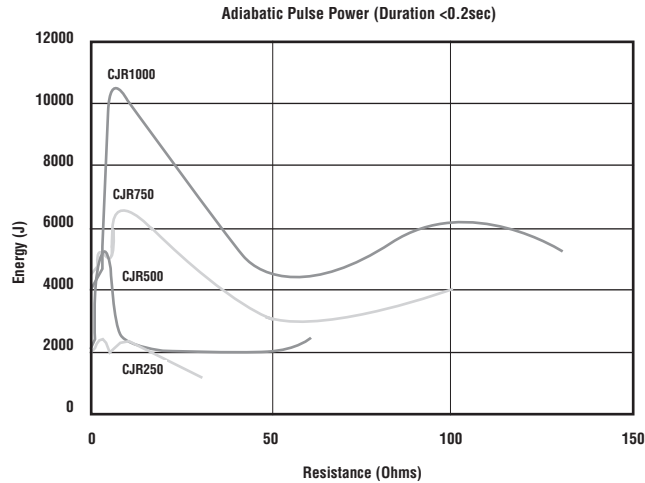
Type	L1	L2	L3
CJR250	110	90	-
CJR500	190	170	85
CJR750	270	250	125
CJR1000	350	330	165

Type CJR Series (Continued)

Derating Curve



Pulse Energy



How to Order

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

Type CJS Series

Type CJS Series



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 aluminum 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

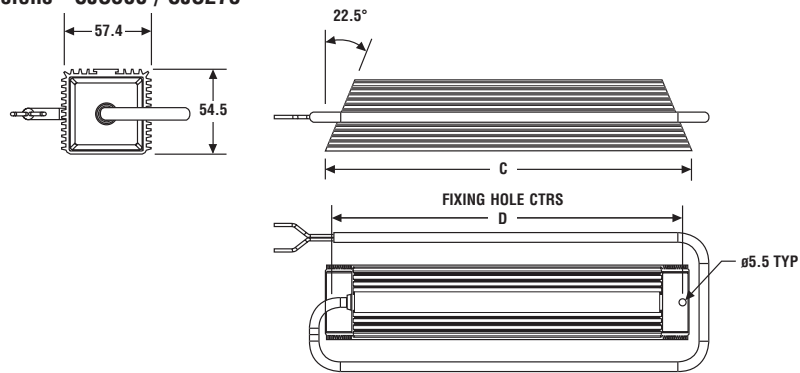
Applications

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

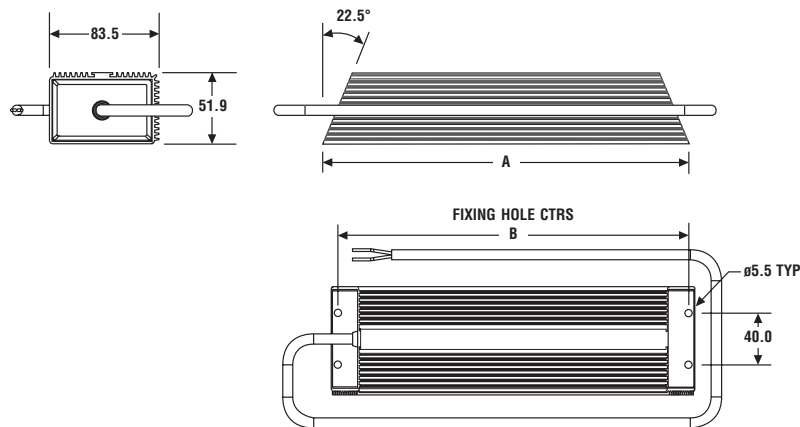
Characteristics - Electrical

	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



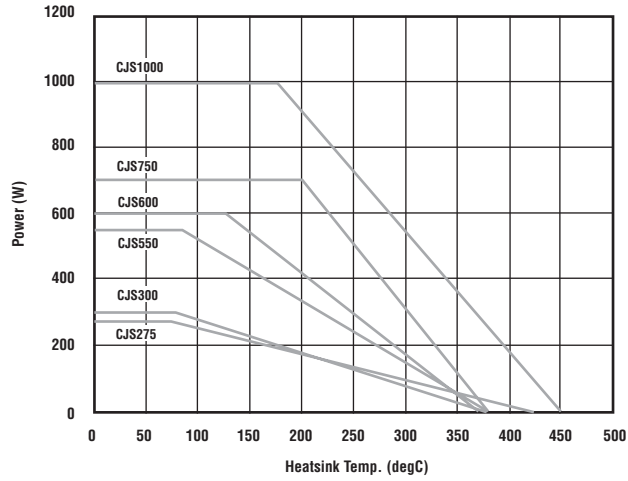
Dimensions - CJS1000 / CJS700 / CJS600 / CJS550



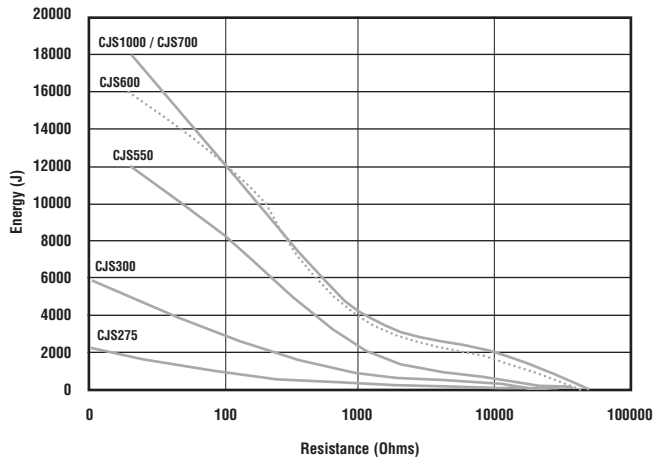
Type	A	B	C	D
CJS275	-	-	200	190
CJS300	-	-	280	270
CJS550	280	270	-	-
CJS600	340	330	-	-
CJS700	400	390	-	-
CJS1000	400	390	-	-

Type CJS Series (Continued)

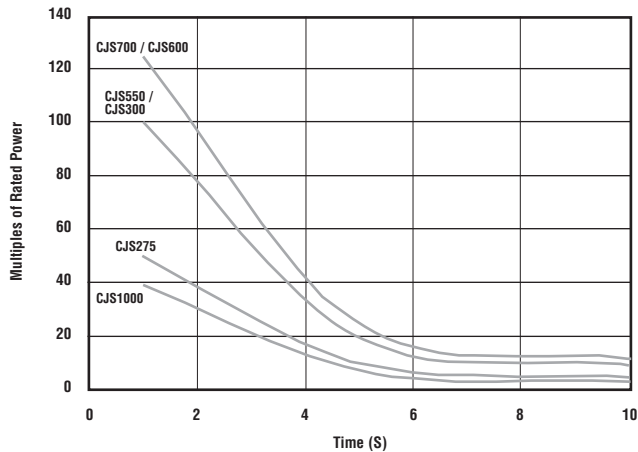
Derating Curve



Pulse Energy

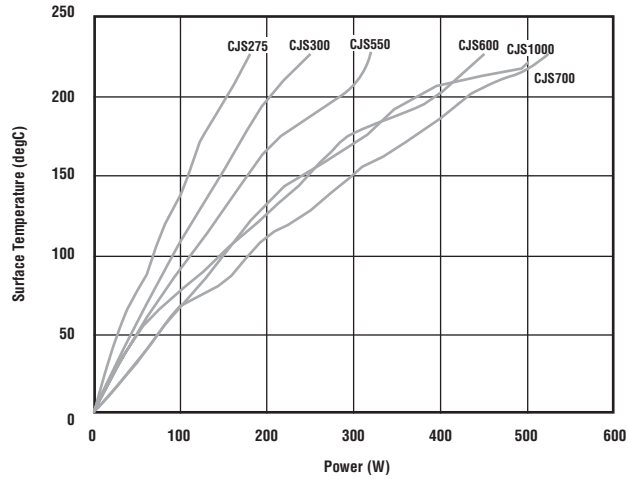


Power Overload

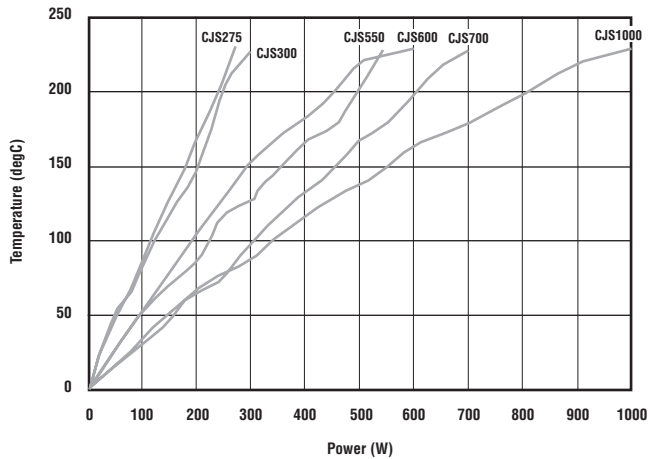


Type CJS Series (Continued)

Surface Temperature Rise - In Free Air



Surface Temperature Rise - Heatsink



How to Order

CJS	275	680R	J
Common Part	Power Rating at 25°C wih Heat Sink	Resistance Value	Tolerance
CJS - Aluminum Housed Power Resistor	275 300 550 600 700 1000	0.1ohm (100mΩ) R10 1 ohm (1000mΩ) 1R0 1K (1000Ω) 1K0	J - 5% K - 10%

Type THS Series



Tyco are the leading European supplier of standard and custom designed aluminum housed resistors for general-purpose use, power supplies, power generation and the traction industry.

The THS is a range of extremely stable, high quality wire wound resistors capable of dissipating high power in a limited space with relatively low surface temperature. The power is rapidly dissipated as heat through the aluminum housing to a specified heatsink.

The resistors are made from quality materials for optimum reliability and stability. Tyco can test resistors to conform to relevant international, MIL or customer specifications.

Key Features

- Established product with proven reliability
 - Leading the way with over 50 years of design and manufacturing experience
- 10 Watts to 50 Watts
- Versatile product
 - Bench mark in every industry

Applications

- Braking Resistor
- Balancing Resistor
- Capacitor Charging & Discharging
- Crowbar
- Filter
- Electrical Machinery general use
- Available through Distribution

Type THS Series

**Characteristics - Electrical
THS - 10 Watts to 50 Watts**

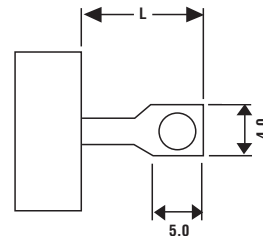
	THS10	THS15	THS25	THS50
Dissipation @ 25°C with Heatsink (Watts):	10	15	25	50
Without Heatsink:	5.5	8	12.5	20
Ohmic Value Min (Ohms):	R01	R01	R01	R01
Max:	10K	15K	36K	50K
Maximum Working Voltage (DC or ACrms) Volts:	160	265	550	1250
Dielectric Strength (AC Peak) Volts:	1400	1400	2500	2500
Stability (% resistance change, 1000 hours) (%):	1	1	1	1
Standard Heatsink - Area (mm²):	41500	41500	53500	53500
Thickness (mm):	1	1	1	1
Number of Mounting Holes:	2 hole	2 hole	2 hole	2 hole

Characteristics - Electrical

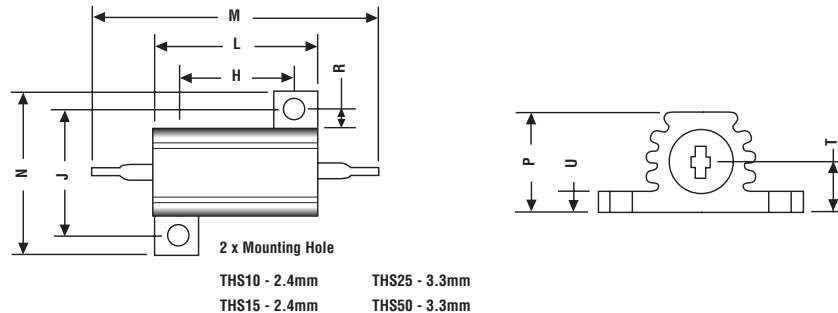
Long Term Stability:	For improvements in long-term stability, resistors must be derated as follows; for 50% of stated ΔR maximum dissipation must not exceed 70% of rating; for 25% of stated ΔR maximum, dissipation must not exceed 50% of rating
Insulation Resistance:	Dry: 10,000MΩ minimum. After moisture test: 1000MΩ minimum.
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 recommended for optimum performance of all sizes
Specification:	Temperature coefficient below 100R, 50ppm/°C Temperature coefficient above 100R, 30ppm/°C Tolerance, 5% standard

**Product Specifications -
THS10 - THS50**

Type	L
THS10, 15	7
THS25, 50	10



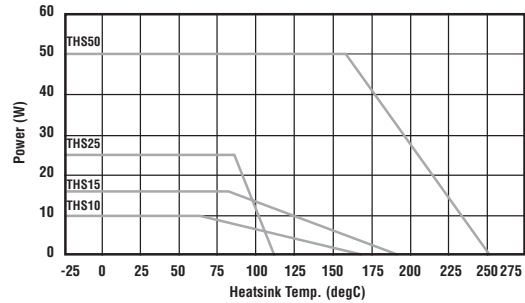
**Dimensions -
THS10 - THS50**



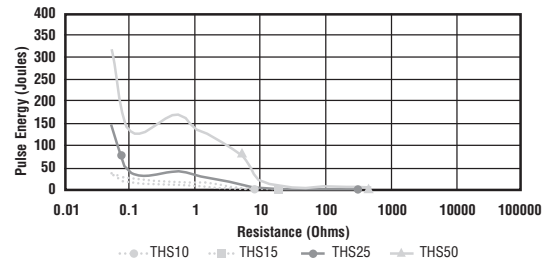
Type	H±0.3	J±0.3	L Max	M Max	N Max	P Max	R Min	T±0.5	U Max
THS10	11.3	12.4	17.0	30.0	17.0	9.0	1.9	3.4	2.5
THS15	14.3	15.9	21.0	36.5	21.0	11.0	1.9	5.2	3.2
THS25	18.3	19.8	29.0	51.8	28.0	15.0	2.8	7.2	3.2
THS50	39.7	21.4	51.0	72.5	30.0	17.0	2.8	7.9	3.2

Type THS Series (Continued)

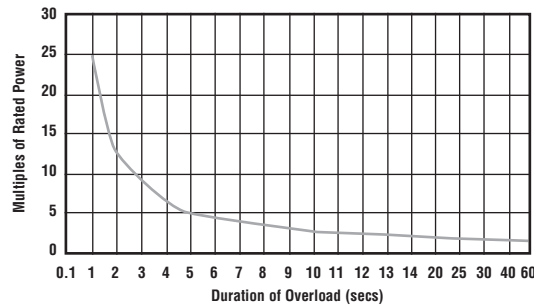
Derating Curve THS10 to THS50



Pulse Energy THS10 to THS50

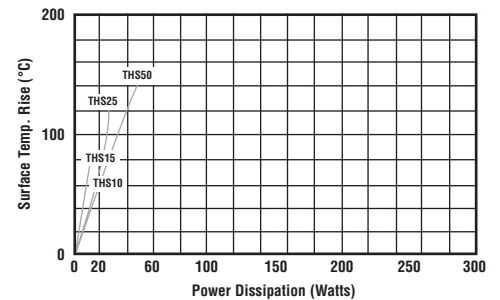


Power Overload



This graph indicates the amount that the rated power (at 20°C) of the standard HS Series resistor may be increased for overloads of 100mS to 60S

Surface Temperature Rise



For resistor mounted on standard heatsink, related to power dissipation

How to Order

THS	50	680R	J
Common Part	Power Rating	Resistance Value	Tolerance
THS- Standard NTHS - Low Inductance	10 Watt = THS10 15 Watt = THS15 25 Watt = THS25 50 Watt = THS50	0.1ohm (100 mille ohms) R10 1ohm (1000 mille ohms) 1R0 1K (1000 ohms) 1K0	J - 5%