



POWER RESISTORS



Products	pag.	3
Quality and Certifications	pag.	4
How to order, Cross-Reference	pag.	5
CS Series	pag.	6
SR Series	pag.	7
RB Series	pag.	8
RB/6 Series	pag.	10
RB/7 Series	pag.	11
RB/8 Series	pag.	12
RB106, RB256 Series	pag.	13
PR100 Series	pag.	14
PR250 Series	pag.	15
PR254 Series	pag.	16
PR600 Series	pag.	
PR800 Series		18





ATE Electronics products set:

- CS axial wirewound resistors (2W to 15W), thanks to row materials of very high quality and reliability, can replace with better permormances resistors in ceramic glaze.

- Aluminium housed RB series (10W to 250W) can supply in small dimensions high power with lower operating temperature.

- CS and RB series can be supplied on request in special versions (fuse resistors, high pulse overload, non inductive...) and with custom leads (high insulation voltage terminals, faston, screw....)

- Symmetry resistors SR (10W & 13W) for voltage divider and discharge of electrolitical capacitors.

- Fuse resistors RF (2W to 15W)

- Thick film resistor PR (100W to 800 W) for snubber and filter applications due to their low parasitic inductance



PRODUCTS



ATE constantly strives to improve its products and services and it is always ready to support customers and distributors all over the world.

To reach the highest possible best standard in terms of high-tech, reliability, fast delivery and excellent quality-price ratio is our main goal.

Our customers loyalty has always been the main inspiration since 1970.

ATE has been one of the first italian companies to be certified quality system and operates today under a quality management system certified UNI EN ISO 9001 and environmental uni UNI EN ISO 14001.

All ATE products and processes are made in Italy and in compliance to rohs, mil & cecc.



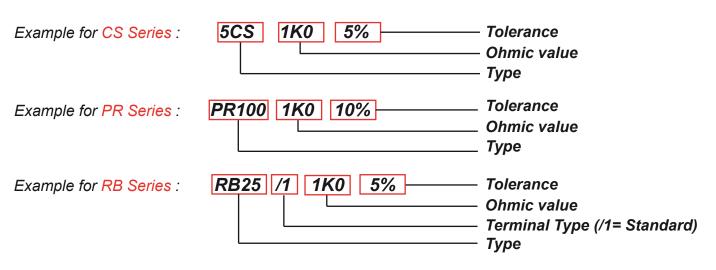


QUALITY



5

How to order :



For non inductive types You have to add the letter "N" after resistor type. Ex.: CSN - RBN

To order CS resistors taped on reel add the suffix "/ 73" after the resistor type. Ex.: 5CS/73 1K0 J Quantity for reel: 1500x2CS, 1000x3CS, 5CS and 6CS

Tolerances:	K	10%	G	2%
	J	5%	F	1%
	Н	3%	D	0.5% (for values above 1R0)

Cross-Reference ATE Electronics											
Competitors	Stato	CS	RB	RB /	PR100	PR250	SMD	SR			
Arcol	UK	ACS	HS	HS /	FPA100	FPA250	S, SL	-			
Ccohm	ΤW	KNP	AH	-		- 11	-	-			
Danotherm	DK	VC	HS	HS /		-	-	-			
Ebg	USA	-	-	-	HXP200	UXP300	-	-			
Huntington	USA	ALSR	ТМС	-	-	HPK600	SM	-			
Коа	JP	RW	-	-		- 11	-	-			
Мсь	FR	-	-	-	RCEC	RCEC	-	-			
Ohmite	USA	80	89, HS	-	TGH	TAP600	RW	G			
Pec	IN	PIA	РНА	-		-	-	PYP			
Powertron	DE	UT	-	-		-	S/SL	-			
Raraohm	KR	PWR	RH	-	ТРМ	-	-	-			
Rcd	USA	100	600	-		-	-	-			
Res. Online	IN	-	AHR	-	-	- 11	-	-			
Riedon	USA-DE	UT	UAL	-	KP	-	-	-			
Royal-Ohm	TT	KNP	PDM	-	-	-	-	-			
Tyco / Cgs	USA-PA	ES	HSA	HSX	BDS100	BDS250	SM	YP			
Vishay	USA	AC, G, RS	RH, SH	-	RTOP	RPS	WSC	-			
Vitrohm	РТ	RX	HS	RE		-	-	-			
Welwin - TT	UK	W	WH	WH /	BHPR	-	-	WPYP			
Yageo	TW	-	RE	-	-	-	-	-			

Note: The Cross-Reference listed may not be exactly equivalent, but they are good replacements / alternatives. We recommend to download both datasheets, ATE and direct Competitor, and make a careful comparison. If You need more information, please contact us at info@ate-electronics.com





ATE ELECTRONICS s.r.l.

Wirewound resistors silicone coated 2 W to 15 W

WIREWOUND RESISTORS SILICONE COATED 2 W TO 15 W

FEATURES

6

Easy replacement of vitreous enamel resistors with no cost increase and no performance loss.

The whole assembly is coated with multi-layer silicone coating to give maximum wire protection form -55°C to +350°C.

Performance improvement is obtained by close tolerance, very low temperature coefficient and excellent stability in operation under severe environmental conditions.

High level reliability due to ceramic core chemically inert and centerless ground for uniformity, selected wire element and completely welded construction terminal to terminal.

These resistors meet or exceed the requirements of MIL-PRF-26 H specifications. **CE ELECTRICAL SPECIFICATIONS**

- Ohmic values

Specifications E24 Series. For out of range or not standard ohmic values, consult ATE Technical Dept. Tolerance Standard 5%. Available on request up to 1% (for values >R047). Temperature coefficient Typical values: ±100 to ±30 ppm from R10 to Rmax Consult factory for special applications Dielectric strength 500 Vdc 2CS to 6CS 700 Vdc 7CS to 12CS - Insulation resistance 1000 MΩ minimum. 100 MΩ after moisture test - Overload 5s at 10 times rated power 5s at 5 times rated power 2CS and 3CS - Non inductive Models of equivalent physical and electrical specifications are also available with

CE MECHANICAL SPECIFICATIONS

Terminal strength 10 lb. pull test. Solderability Continuous, satisfactory coverage when tested in accordance to MIL-PRF-26 H.

CE MATERIALS

non inductive Ayrton-Perry winding

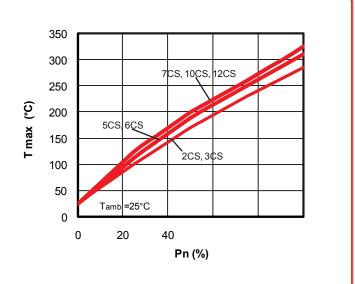
- Core Ceramic steatite or alumina centerless ground Resistive element Copper-nickel alloy or nickel-chrome alloy with specific temperature coefficient - End caps Stainless steel - Coating Special high temperature silicone - Standard terminals

LF tinned copper or LF tinned copperweld Point of measure: L + 20mm

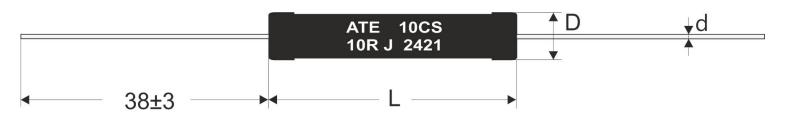
🛈 DERATING

These resistors can be used in a temperature range form -55°C to +350°C To use these components in applications with working temp. higher +25°C You have to make a power reduction with linear derating from nominal power to zero at 350°C





ATE	MIL PRF	Rated	Resistance	Voltage	Temperature	Weight	Din	nension	s
Туре	26Н Туре	power (W)	range (Ω)	Limit (V)	rise (°C/W)	(g)	D (mm)	L (mm)	d (mm)
2CS	RW69V	3	0.01- 5K6	130	91	1.2	5.2±0.5	12±0.8	0.8
3CS	-	4	0.01- 10K	200	74	1.8	6±0.5	13.5±0.8	0.8
5CS	RW74U	6	0.01- 24K	380	52	3.2	8±0.5	22±1.6	0.8
6CS	RW67V	7	0.01- 27K	435	45	3.8	8±0.5	25±1.6	0.8
7CS	RW55V	10	0.01- 47K	685	30	7	9.5±0.5	35±1.6	0.9
10CS	RW68V	13	0.01- 68K	940	24	9	9.5±0.5	46±1.6	0.9
12CS	RW56V	15	0.01- 82K	1100	21	10	9.5±0.5	51±1.6	0.9







SR SERIES

Simmetry resistors and/or capacitors discharge

7SR 10SR

7

SYMMETRY RESISTORS AND/OR CAPACITORS DISCHARGE

SPECIFICATIONS

- Tolerance : Standard 5%. On request up to 1%
- Ohmic values : E24 Series
 Temperature coefficient : From ±100 to ±30 ppm from R10 to Rmax
- Dielectric strength: 1000 Vac
- Packing: Strip of 10 pcs or loose pcs 10SRS, in blister
- Vibrations test : According IEC 60571-1

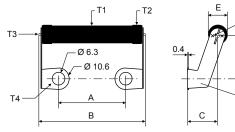
More technical data as 7CS and 10CS standard type

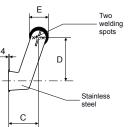


ATE Type	Basic Resistors	A (mm) toll: ±1	B (mm) max value	C (mm) toll: ±1	D (mm) toll: ±1	E (mm) toll: ±1	Weight (g)
7SR	7CS	22.2	40	15	21	9.5	9
7SR/B	7CS	22.2	40	10	16	9.5	9
10SR	10CS	31.8	50	15	21	9.5	11
10SR/B	10CS	31.8	50	10	16	9.5	11

ATE Type	MIL-R-26H Type	Rated power (W)	Resistance range (Ω)	Voltage limit (V)
7SR	RW55	10	0.1 - 47K	685
10SR	RW68	13	0.1 - 68K	940

ATE Type	Temperature rise at rated power 7SR and 7SR/B	Temperature rise at rated power 10SR and 10SR/B
T1	∆ <i>T</i> = 26 °C/W	∆ <i>T</i> = 21.5 °C/W
T2	∆ <i>T</i> = 16 °C/W	∆ <i>T</i> = 12.3 °C/W
ТЗ	∆ <i>T</i> = 15 °C/W	∆ <i>T</i> = 11.5 °C/W
T4 (capacitor mounted)	$\Delta T = 1.2 \ ^{\circ}C/W$	$\Delta T = 1 \ ^{\circ}C/W$









RB SERIES

ATE ELECTRONICS s.r.l.

Fixed power wirewound resistors aluminium housed 10 W to 250 W

FIXED POWER WIREWOUND RESISTORS ALUMINIUM HOUSED

FEATURES

Extruded aluminium housing provides superior heat conduction. Housing deep finned for maximum heat dissipation at natural or forced air convection.

Gold anodized finish for maximum resistance to environmental conditions. Special thermosetting compound with high thermal conductivity. Winding designed to give maximum core coverage and uniformity for even heat dissipation.

Core centerless ground for maximum winding uniformity. Marking at top surface for easy identification after mounting. Complete welded construction terminal to terminal.



Specifications These resistors meet or exceed the requirements of MIL-PRF-18546 G specifications. **CE ELECTRICAL SPECIFICATIONS** - Ohmic values Serie E24. For out of range or not standard ohmic values, consult ATE Technical Dept. - Tolerance Standard 5%. Available on request up to 1%. - Temperature coefficient ±30 ppm R > 20 Ω $\pm 50 ppm 1 \Omega < R < 20 \Omega$ $\pm 100 \, ppm \, 0.1 \, \Omega < R < 1 \, \Omega$ Dielectric strength 1500 Vac for RB10 2500 Vac for RB25 and RB50 3500 Vac for RB75, RB101 and RB150 4500 Vac for RB100 and RB250 - Insulation resistance 10000 MΩ minimum 1000 M Ω after moisture test - Overload 5s at 5 times rated power - Non inductive Models of equivalent physical and electrical specifications are also available with non inductive Ayrton-Perry winding **CE MECHANICAL SPECIFICATIONS**

- Terminal strength 10 lb. pull test; 3 Nm x RB100 and 4 Nm x RB250 max torque

- Solderability

Satisfactory when tested in accordance with method 208 of MIL-STD-202. The use of high temperature solder is recommended when resistors work near the maximum specified ratings

C MATERIALS

- Core

Ceramic steatite or alumina centerless ground

- Resistive Element
- Copper-nickel alloy or nickel-chrome alloy with specific temperature coefficient End caps
- Stainless steel
- Encapsulant
- High temperature thermosetting compound
- Housing
- Aluminium with hard anodic finish

- Standard terminals Copperweld RB10 to RB150

Stainless steel for RB100 and RB250

DERATING

ATE RB resistors have and operative temperature range from -55°C to +250°C Derating is required for reduced chassis area and for high ambient temperature

ATE Type	MIL-PRF- 18546 G Type	Rated power (W)	Max power no heatsink (W)	Resistance range (Ω)	Voltage limit (V)	Temp. rise with heatsink (°C/W)	Weight (g)	Heatsink dimensions (cm² x mm)
RB10	RE65	12	6	0.01-10K	265	5.1	6	415x1
RB25	RE70	25	12.5	0.01-18K	550	3	14	535x1
RB50	RE75	50	20	0.01-68K	1250	1.9	35	930x1.5
RB75	-	75	35	0.1-50K	1400	1.1	85	995x3
RB101	-	100	40	0.1-70K	1900	1	115	995x3
RB150	-	150	55	0.1-100K	2500	1	165	995x3
RB100	RE77	150	75	0.1-100K	1900	0.84	500	930x3
RB250	RE80	250	100	0.1-120K	2300	0.66	900	930x3

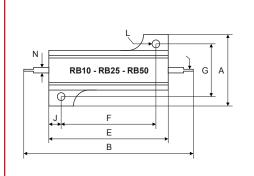


ATE ELECTRONICS s.r.l.

Fixed power wirewound resistors aluminium housed 10 W to 250 W

RB SERIES



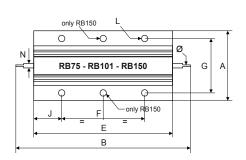


-

K

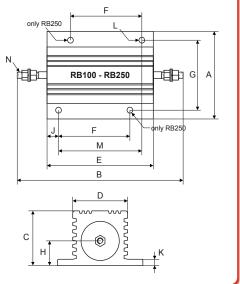
С

H



Ļκ

С



	Dimensions (mm)													
ATE Type	A	В	С	D	Ε	F	G	Н	J	K	L	М	Ν	Ø
RB10	20.4	35	10	11	19	14.3	15.9	5	2.4	2	2.4	-	2	2.2
RB25	27.2	49	14	14	27	18.3	19.8	6.5	4.4	2	3.2	-	2	2.2
RB50	29.2	71	16	16	50	39.7	21.5	7	5.2	2	3.2	-	2	2.2
RB75	47	73	24	27	48	29	37	11.5	9.5	3.5	4.4	-	3	3.2
RB101	47	89	24	27	64	35	37	11.5	14.5	3.5	4.4	-	3	3.2
RB150	47	122	24	27	97	58	37	11.5	19.5	3.5	4.4	-	3	3.2
RB100	71.5	139	44.5	46	89	-	57.1	20	9.6	5	4.8	69.8	M5	-
RB250	76	178	55.6	54	114	76.2	63.5	25.5	7.8	6.3	4.8	98.4	M6	-
Tol.	±0.2	±1	±0.2	±0.2	±0.5	±0.2	±0.2	±0.2	±0.5	±0.2	±0.2	±0.2	±0.2	±0.2







RB25/6 Fixed power wirewound resistors RB50/6 aluminium housed with large creep distance

FIXED POWER WIREWOUND **RESISTORS ALUMINIUM HOUSED** WITH LARGE CREEP DISTANCE

These resistors meet or exceed the requirements of MIL - PRF - 18546 G

CE ELECTRICAL SPECIFICATIONS

- Ohmic values

E24 Series. For out of range or not standard ohmic values, consult ATE Technical Dept.

- Tolerance

- Standard 5%. Available on request up to 1%
- Temperature coefficient
- From ± 100 to ± 30 ppm from R10 to Rmax

- Dielectric strength 3000Vac / 4200Vac peak

- Large creep distance

- RB25/6 > 6,5mm RB50/6 > 10mm
- Insulation resistance
- 10000 MΩ minimum
- 1000 MΩ after moisture test

- Overload

5s at 5 times rated power - Non inductive

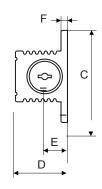
Models of equivalent physical and electrical specifications are also available with non inductive Ayrton-Perry winding

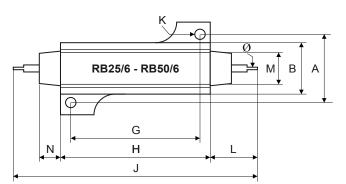
More technical data as RB25 / RB50 standard



ATE Type	MIL-PRF 18546 G Type	Rated power (W)	Resistance range (Ω)	Voltage Limit (V)	Weight (g)	Heatsink Dimensions (cm² x mm)
RB25/6	RE70	25	0.1 - 18K	550	13	535 x 1
RB50/6	RE75	50	0.1 - 68K	1250	32	930 x 1.5

ATE TUDA		Dimensions (mm)												
ATE Type A B C D E F G H								J	K	L	М	N	Ø	
RB25/6	19.8	14	27.7	14	6.5	2	18.3	24	49	3.2	12.5	8	4	2.2
RB50/6	21.5	16	29.2	16	7	2	39.7	46	75	3.2	14.5	10	6.5	2.2
Tol.	±0.2	±0.2	±0.2	±0.2	±0.2	±0.2	±0.2	±0.5	±1	±0.2	±1	±0.5	±0.5	±0.2









RB/7 SERIES 11

Fixed power wirewound resistors aluminium housed with faston leads

RB25/7 RB50/7

FIXED POWER WIREWOUND RESISTORS ALUMINIUM HOUSED WITH FASTON LEADS

These resistors meet or exceed the requirements of MIL - PRF - 18546 G specifications

CE ELECTRICAL SPECIFICATIONS

- Ohmic values

E24 Series. For out of range or not standard ohmic values, consult ATE Technical Dept.

- Tolerance
- Standard 5%. Available on request up to 1%
- Temperature coefficient From ±100 to ±30 ppm from R10 to Rmax
- Dielectric strength
- 2500Vac / 3500Vac peak
- Insulation resistance
- 10000 M Ω minimum
- 1000 M Ω after moisture test
- Overload
- 5s at 5 times rated power

 Non inductive Models of equivalent physical and electrical specifications are also available with non inductive Ayrton-Perry winding

- Leads

6.35 mm Faston nickel plated steel, spot welding

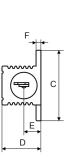
More technical data as RB25 / RB50 standard

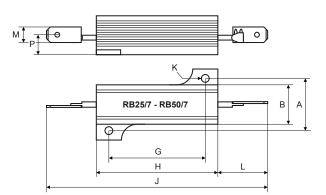




ATE Type	MIL-PRF 18546 G Type	Rated power (W)	Resistance range (Ω)	Voltage limit (V)	Weight (g)	Heatsink dimensions (cm² x mm)
RB25/7	RE70	25	0.1 - 18K	550	13	535 x 1
RB50/7	RE75	50	0.1 - 68K	1250	32	930 x 1.5

ATE Type		Dimensions (mm)														
	A	В	С	D	E	F	G	Н	J	K	L	М	Р			
RB25/7	19.8	14	27.7	14	6.5	2	18.3	27	69	3.2	21	6.35	7.7			
RB50/7	21.5	16	29.2	16	7	2	39.7	50	91	3.2	20.5	6.35	8.2			
Tol.	±0.2	±0.2	±0.2	±0.2	±0.2	±0.2	±0.2	±0.5	±2	±0.2	±2	-	±1			









RB50/8 Fixed power wirewound resistors aluminium housed with screw leads (TOP)

FIXED POWER WIREWOUND RESISTORS ALUMINIUM HOUSED WITH SCREW LEADS (TOP)

These resistors meet or exceed the requirements of MIL - PRF - 18546 G specifications

CE ELECTRICAL SPECIFICATIONS

- Ohmic values

- E24 Series. For out of range or not standard ohmic values, consult ATE Technical Dept. - Tolerance Standard 5%. Available on request up to 1%
- Temperature coefficient
- From ±100 to ±30 ppm from R10 to Rmax
- Dielectric strength 2500Vac / 3500Vac peak
- Insulation resistance

10000 MΩ minimum

- 1000 M Ω after moisture test
- Overload

12

- 5s at 5 times rated power
- Non inductive

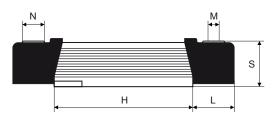
Models of equivalent physical and electrical specifications are also available with non inductive Ayrton-Perry winding

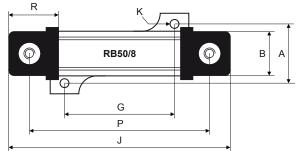
- Leads
- M4 threaded hole
- -Terminal screw tightening torque
- 1,5Nm (static)

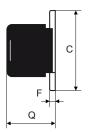


ATE Type	MIL-PRF 18546 G Type	Rated power (W)	Resistance range (Ω)	Voltage limit (V)	Weight (g)	Heatsink dimensions (cm² x mm)					
RB50/8	RE75	50	0.1 - 68K	1250	52	930 x 1.5					
Dimensions (mm)											

ATE TUDA		$\begin{array}{c c c c c c c c c c c c c c c c c c c $														
ATE Type	A	В	С	D	F	G	Н	J	K	L	М	Ν	Р	Q	R	S
RB50/8	21.5	16	29.2	16	2	39.7	50	79.5	3.2	14.5	M4	8	65	17.5	18.5	16.5
Tol.	±0.2	±0.2	±0.2	±0.2	±0.2	±0.2	±0.5	±2	±0.2	±0.5	-	-	±1	±0.5	±0.5	±0.5







Connection screws supplied with the resistor





RB106 SERIES

Fixed power wirewound resistors aluminium housed with large creep distance

RB106 RB256

13

FIXED POWER WIREWOUND RESISTORS ALUMINIUM HOUSED WITH LARGE CREEP DISTANCE

These resistors meet or exceed the requirements of MIL - PRF - 18546 G specifications

CE ELECTRICAL SPECIFICATIONS

- Ohmic values

E24 Series. For out of range or not standard ohmic values, consult ATE Technical Dept.

- Tolerance

- Standard 5%. Available on request up to 1%
- Temperature coefficient
- From ±100 to ±30 ppm from R10 to Rmax
- Dielectric strength 5000Vac / 7000Vac peak
- Large creep distance
- RB106 > 22mm
- RB256 > 25 mm
- Insulation resistance
- 10000 MΩminimum
- 1000 M Ω after moisture test
- Overload
- 5s at 5 times rated power - Non inductive

Models of equivalent physical and electrical specifications are also available with non inductive Ayrton-Perry winding

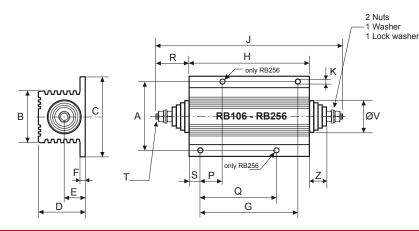
More technical data as RB100 and RB250 standard





ATE Type	MIL-PRF 18546 G Type	Rated power (W)	Resistance Range (Ω)	Voltage limit (V)	Weight (g)	Heatsink dimensions (cm² x mm)
RB106	RE77	150	0.1 - 100K	1900	500	930 x 3
RB256	RE80	250	0.1 - 120K	2300	900	930 x 3

ATE TUDA		Dimensions (mm)															
АТЕ Туре	Α	В	С	D	Ε	F	G	Н	J	K	Р	Q	R	S	T	V	Ζ
RB106	57.1	46	71.5	44.5	20	5	69.8	89	139	4.8	-	-	25	9.6	M5	32	12
RB256	63.5	54	76	55.6	25.5	6.3	98.4	114	178	4.8	22.2	76.2	32	7.8	М6	32	16
Tol.	±0.2	±0.5	±0.5	±0.5	±0.5	±0.5	±0.2	±0.5	±2	±0.2	±0.2	±0.2	±0.2	±0.5	-	-	-





14 PR100 SERIES



PR100-101 Thick film power resistors PR102-103



CE ELECTRICAL SPECIFICATIONS

- Resistance range: From 1R0 to $1M\Omega$, E12 series - Tolerance: Standard 10%, up to 1% on request

- Work Temperature Range : From -55°C to +155°C

- Partial discharge : < 80 pC @ 2000 Vac (on request)

Power rating : 100W (PR102 2 x 50W)
 Max power not trimmed : 150W (heatsink at 70°C)

Temperature coefficient : ±100 ppm/°C
 Max Work Voltage : 1500 Vac

- Insulation resistance : > 10⁵ MΩ at 500V

- Dielectric Strength : 2500 Vac

- Thermal resistance : 0.5 °C/W - Heatsink flatness : 0.05 mm Max

- Thermal grease : required

- Heatsink surface finish : 6.3µm Max

 Max torque for contact : 1.2 Nm (static)
 Max torque for mounting : 1.5 Nm (static)
 Weight : 18 g (PR100 / PR101) 24 g (PR102 / PR103)

- Self inductance : 40 nH - Capacitance to heatsink : < 30 pF

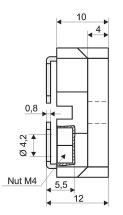
- Overload : 2 Pn x 10 s

FEATURES

Very good ratio Power / Volume. Easy mounting and wiring with significant cost advantages. Non inductive performance for high frequency applications. One model for power up to 150W. Suited to UL94-V0 application. SOT227 configuration.







38

Connection and mounting screws supplied with the resistor









- 3

2

2

3

3

R

R

PR100

PR101

PR102

PR103





PR250 SERIES

Thick film power resistors

PR250 PR250T

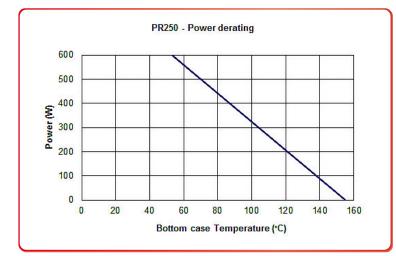
15

THICK FILM POWER RESISTORS PR250

GE FEATURES

Very good ratio Power / Volume Easy mounting and wiring with significant cost advantages. Non inductive performance for high frequency applications. One models for power applications up to 500W. Suited to ULV94-V0 application.



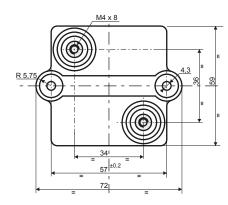


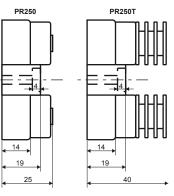
CE ELECTRICAL SPECIFICATIONS

-Power rating: 250W (heatsink at 100°C) -Resistance range: From 1R0 to 1MΩ, É12 series -Tolerance: Standard 10%, up to 1% on request -Temperature coefficient: ±100 ppm/°C -Max Work. Voltage: 5000 Vac -Work Temp. Range: From -55°C to +155°C -Dielectric Strength: 7000 Vac (12000 Vac x PR250T) -Insulation resistance: > 10⁵ MΩ at 500V -Creep distance: 42 mm (65 mm x PR250T) -Air gap distance: 16 mm (29mm x PR250T) -Partial discharge: < 10 pC @ 5000 Vac -Self inductance: 80 nH -Parallel capacitance: 40 pF -Capacitance to heatsink: < 120 pF -Overload : 4 Pn x 10 s -Thermal resistance: 0.15 °C/W -Heatsink flatness: 0.05 mm Max -Heatsink surface finish: 6.3 µm Max -Thermal grease: Required N> 1W/mk -Max torque for contacts: 2Nm (static)

- -Max torque for mounting: 2Nm (static)
- -Weight: 100 g (130 gr for PR250T)
- -Options: For values R039 <R< 1R0 is available Metal Foil type PR500M







"Connection and mounting screws are supplied with the resistor All dimensions are in mm"





PR254

Thick film power resistors



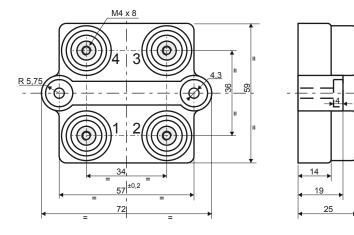
◯ FEATURES

Very good ratio Power / Volume

Easy mounting and wiring with significant cost advantages. Non inductive performance for high frequency applications. One models for power applications up to 500W. Suited to ULV94-V0 application.



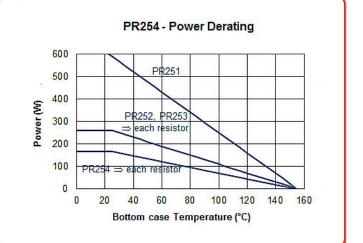
PR254

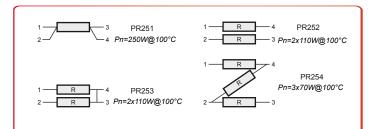


"Connection and mounting screws are supplied with the resistor All dimensions are in mm"

ELECTRICAL SPECIFICATIONS

-Power rating: 250W (heatsink at 100°C) -Resistance range: From 1R0 to 1MΩ, E12 series -Tolerance: Standard 10%, up to 1% on request -Temperature coefficient: ±100 ppm/°C -Max Work. Voltage: 5000 Vac -Work Temp. Range: From -55°C to +155°C -Dielectric Strength: 7000 Vac -Insulation resistance: > 10⁵ MΩ at 500V -Creep distance: 42 mm -Air gap distance: 16 mm -Partial discharge: < 10 pC @ 5000 Vac -Self inductance: 80 nH -Parallel capacitance: 40 pF -Capacitance to heatsink: < 120 pF -Overload : 4 Pn x 10 s -Thermal resistance: 0.15 °C/W -Heatsink flatness: 0.05 mm Max -Heatsink surface finish: 6.3 µm Max -Thermal grease: Required N> 1W/mk -Max torque for contacts: 2Nm (static) -Max torque for mounting: 2Nm (static) -Weight: 125 g









PR600 SERIES 17

Thick film power resistors PR600



TEATURES

Very good ratio Power / Volume Easy mounting and wiring with significant cost advantages. Non inductive performance for high frequency applications. One models for power applications up to 600W. Suited to UL94-V0 application

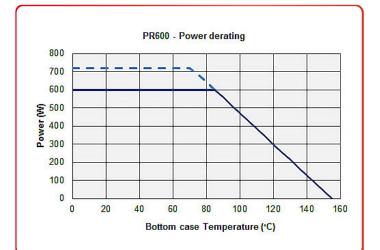
Œ ELECTRICAL SPECIFICATIONS

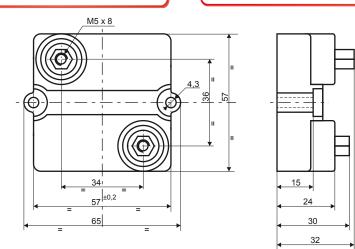
Power rating: 600W @ 85°C Bottom case Temperature For power greater than 600W please consult Technical Dept. Resistance Range: from 1R0 to 1M0 Resistance Values: E12 series For out of range or not std. values please contact ATE Electronics Technical Dept.

Tolerance: Standard ±10%. Available on request up to ±1%

Temperature coefficient: ±150 ppm/°C Work Temperature Range: from -55°C to +155°C Max Working Voltage: $5kV, \sqrt{P\times R}$ Dielectric strength: 7kVac x 60" Insulation resistance: > 10⁵ MΩ at 500V Creep distance: 42mm Air Gap distance: 16mm Partial Discharge: < 10pC @ 5kVac Self Inductance: 80nH Parallel Capacitance: 40pF Capacitance to heatsink: < 110pF Overload: 1kW x 10" Thermal resistance: 0,115°C/W Heatsink flatness: 0,05mm max Heatsink surface finish: 6,3µm max Thermal grease: Required, $\lambda > 1W/mK$ Max Torque for contacts: 2Nm (static) Max Torque for mounting: 2Nm (static) Weight: 95g







"Connection and mounting screws are supplied with the resistor All dimensions are in mm"







PR800 Thick film power resistors



TEATURES

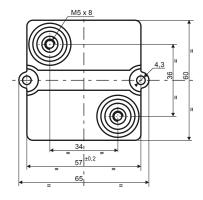
Very good ratio Power / Volume Easy mounting and wiring with significant cost advantages. Non inductive performance for high frequency applications. Materials are ULV94-V0 listed

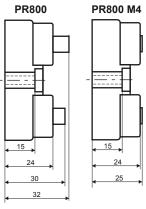
CE ELECTRICAL SPECIFICATIONS

-Power rating: 800W @ 85°C Bottom case Temperature For power greater than 800W please consult Technical Dept. -Resistance Range: from 1R0 to 1M0--Resistance Values: E12 series For out of range or not std. values, please contact ATE Electronics Technical Dept. -Tolerance: Standard ±10%. -Temperature coefficient: ±150ppm/°C -Work Temperature Range: from -55°C to +155°C -Max Working Voltage: 5,2kV , $V = \sqrt{P \times R}$ -Dielectric strength: 7kVac x 60" (12kVac on request) -Insulation resistance: > 10^s MΩ at 500V -Creep distance: 42mm -Air Gap distance: 16mm -Partial Discharge: < 10pC @ 5kVac -Self Inductance: 80nH (typical) -Parallel Capacitance: 40pF (typical) -Capacitance to heatsink: 150pF (typical) -Overload: 1kW x 10" -Thermal resistance: 0,11°C/W -Heatsink flatness: 0,05mm max -Heatsink surface finish: 6,3µm max -Thermal grease: Required, $\lambda > 1W/mK$ -Max Torque for contacts: 2Nm (static) -Max Torque for mounting: 2Nm (static) -Weight: 100g









"Connection and mounting screws are supplied with the resistor All dimensions are in mm"

