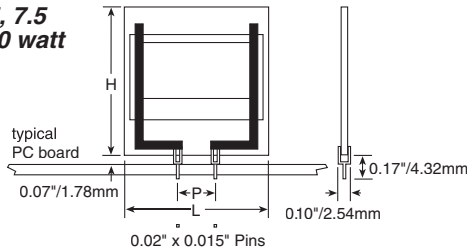


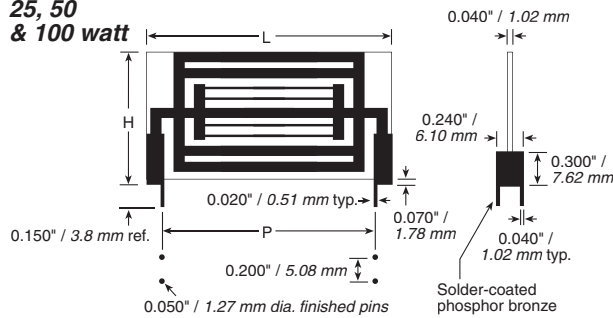
TA Series

Power Chip® Resistors Thick Film on Alumina Substrate

3, 5, 7.5
& 10 watt



25, 50
& 100 watt



Ohmite's original Power Chip resistors are designed from our thick film on alumina substrate technology. These planar packages yield space saving, 10W/in² power densities that require over 50% less board space than other radial packages. Convection cooling is maximized by the planar package configuration which dissipates heat well above board level.

Ohmite's power chip resistors have a 125% higher operating temperature range than competitive product of similar design. High temperature solder and in-process plating keep terminations secure under self-heating effects by preventing re-flow from full power operation.

Flexible packaging schemes make these resistors ideal for power supplies, audio amplifiers, video fly-back, and other power control applications.

FEATURES

- High-Temp Terminal Construction
- Wide Resistance Range
- Low Inductance (50nH-100nH)
- High Power Density
- Easy to install. PC-mountable

SPECIFICATIONS

Material

Substrate: Alumina

Resistor: Thick Film

Coating: Glass

Terminals: Solder Plated
Phosphor Bronze

Thermal Conductivity:
20 Watts/Meter/°C

Temperature Coefficient:

1 ohm 450 ppm/°C
1 to 100Ω 100 ppm/°C
101Ω and up 50 ppm/°C

Electrical

Tolerance: ±1% and ±5% (other tolerances available)

Power Rating: Based on 25°C free air

Resistance Range: 0.5 ohm to 10M ohm. Consult factory for other values

Maximum Operating Voltage:
350 VAC, 500 VDC through glass, 1000 VAC, 1500 VDC through substrate

Overload: Five times rated power, as long as the one second average dissipation does not exceed the wattage rating.
ΔR: ±2%, 2000 hours

Derating:

100% @ 25°C to 0% @ 350°C.

Series	Wattage	Dimensions (in. / mm)		
		P	Length L	Height H
TA203	3.0	0.200 / 5.08	0.50 / 12.70	0.60 / 15.24
TA303	3.0	0.300 / 7.62	0.50 / 12.70	0.60 / 15.24
TA205	5.0	0.200 / 5.08	0.50 / 12.70	1.00 / 25.40
TA305	5.0	0.300 / 7.62	0.50 / 12.70	1.00 / 25.40
TA605	5.0	0.600 / 15.24	1.00 / 25.40	0.50 / 12.70
TA805	5.0	0.800 / 20.32	1.00 / 25.40	0.50 / 12.70
TA207	7.5	0.200 / 5.08	0.75 / 19.05	1.00 / 25.40
TA307	7.5	0.300 / 7.62	0.75 / 19.05	1.00 / 25.40
TA310	10.0	0.300 / 7.62	1.00 / 25.40	1.00 / 25.40
TA810	10.0	0.800 / 20.32	1.00 / 25.40	1.00 / 25.40
TA025	25.0	1.90 / 48.3	2.220 / 56.39	1.170 / 29.70
TA050	50.0	1.90 / 48.3	2.220 / 56.39	2.270 / 57.60
TA100	100.0	4.10 / 104.1	4.420 / 112.27	2.270 / 57.60

ORDERING INFORMATION			
Pin spacing (on 3-10W models only)			
2 = .2"			
3 = .3"			
8 = .8"			
Tolerance			
K = 10%			
J = 5%			
F = 1%			
TA 3 0 5 PA 4 K 5 0 J			
Series	Power Rating:	Package:	Resistance Value (Ω)
	03 = 3 W	PA = pin terminals,	R250 = 0.25
	05 = 5	std. for 3-10 W	10R0 = 10.0
	07 = 7.5	PW = wraparound,	2K00 = 2,000
	10 = 10	std. for 25-100 W	45K0 = 45,000
	025 = 25		
	050 = 50		
	100 = 100		

STOCK PART NUMBERS FOR STANDARD RESISTANCE VALUES

Ohmic value	Part Number										Ohmic value	Part Number										Ohmic value	Part Number												
	Part No. Prefix ▶ Suffix ▼	TA203PA	TA303PA	TA205PA	TA305PA	TA207PA	TA310PA	TA810PW	TA025PW	TA050PW		TA100PW	Part No. Prefix ▶ Suffix ▼	TA203PA	TA303PA	TA205PA	TA305PA	TA207PA	TA310PA	TA810PW	TA025PW		TA050PW	TA100PW	Part No. Prefix ▶ Suffix ▼	TA203PA	TA303PA	TA205PA	TA305PA	TA207PA	TA310PA	TA810PW	TA025PW	TA050PW	TA100PW
0.25	—R250J	+	✓	✓	✓							50.00	—50R0J	+	+	+	+	✓	✓	✓	✓	✓	✓	2,500.00	—2K50J	✓	✓	+	✓	✓	✓	✓	✓	✓	✓
1.00	—1R00J	+	+	+	✓	✓	✓	+	+	+	+	62.00	—62R0J	✓	✓	+	✓	✓	✓	✓	✓	✓	✓	3,000.00	—3K00J	✓	✓	+	✓	✓	✓	✓	✓	✓	✓
1.50	—1R50J	✓			✓	✓	✓	+	+	+	+	68.00	—68R0J	✓	✓	+	✓	✓	✓	+	✓	✓	✓	4,000.00	—4K00J	✓	✓		+	✓	✓	✓	✓	✓	✓
2.00	—2R00J	+	+	✓	✓	✓	✓	+	+	✓	✓	75.00	—75R0J	✓	✓	✓	+	✓	✓	✓	✓	✓	✓	4,700.00	—4K70J	✓	✓	+	+	✓	✓	✓	✓	✓	✓
4.70	—4R70J	✓	✓	✓	+	+	✓	✓	✓	✓	✓	100.00	—100RJ	+	✓	+	+	✓	+	+	+	+	+	5,000.00	—5K00J	✓	✓	✓	+	✓	✓	✓	✓	✓	✓
5.00	—5R00J	+	✓	✓	✓	✓	✓	+	+	+	+	150.00	—150RJ	✓	✓	+	✓	✓	✓	✓	✓	✓	✓	5,100.00	—5K10J	✓	✓	+	✓	+	✓	✓	✓	✓	✓
5.10	—5R10J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	200.00	—200RJ	+	+	✓	+	✓	✓	✓	✓	✓	✓	7,500.00	—7K50J	✓	✓	✓	+	✓	✓	✓	✓	✓	✓
7.50	—7R50J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	250.00	—250RJ	✓	✓	✓	+	✓	✓	✓	✓	✓	✓	10,000.00	—10K0J	+	✓	✓	+	+	+	+	+	✓	✓
8.20	—8R20J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	270.00	—270RJ	✓	✓	✓	✓	✓	+	✓	✓	✓	✓	15,000.00	—15K0J	✓	✓	✓	+	✓	✓	✓	✓	✓	✓
10.00	—10R0J	+	+	+	+	+	+	+	+	+	+	300.00	—300RJ	+	✓	+	✓	✓	✓	✓	✓	✓	✓	18,000.00	—18K0J	✓	+	✓	+	✓	✓	✓	✓	✓	✓
11.00	—11R0J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	470.00	—470RJ	+	✓	+	✓	✓	+	+	+	+	+	20,000.00	—20K0J	✓	✓	✓	+	+	+	✓	✓	✓	✓
12.00	—12R0J	✓			✓	✓	✓	✓	✓	✓	✓	500.00	—560	+	+	✓	✓	✓	✓	✓	✓	✓	✓	30,000.00	—30K0J	✓	✓	✓	+	✓	✓	✓	✓	✓	✓
15.00	—15R0J	+	✓	✓	✓	✓	✓	✓	✓	✓	✓	620.00	—620RJ	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	39,000.00	—39K0J	✓	✓	✓	✓	+	✓	✓	✓	✓	✓
20.00	—20R0J	+	✓	✓	+	+	✓	+	+	✓	✓	680.00	—680RJ	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	50,000.00	—50K0J	✓	✓	✓	✓	✓	+	✓	✓	✓	✓
24.00	—24R0J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1,000.00	—1K00J	+	✓	+	✓	✓	✓	+	+	+	+	75,000.00	—75K0J	✓	✓	✓	+	✓	✓	✓	✓	✓	✓
27.00	—27R0J	+	✓	✓	✓	✓	✓	✓	✓	✓	✓	1,500.00	—1K50J	✓	✓	✓	✓	✓	+	✓	✓	✓	✓	100,000	—100KJ	+	+	✓	✓	✓	✓	✓	✓	✓	✓
33.00	—33R0J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1,800.00	—1K80J	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	150,000	—150KJ	+	+	✓	✓	✓	✓	✓	✓	✓	✓
47.00	—47R0J	+	✓	✓	✓	✓	✓	✓	✓	✓	✓	2,000.00	—2K00J	+	✓	✓	✓	✓	✓	✓	✓	✓	✓	200,000	—200KJ	✓	+	✓	✓	✓	✓	✓	✓	✓	✓

+

✓

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 = Most popular stock values, ✓ = Stock values, + = Non-stock values subject to minimum handling charge per item

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