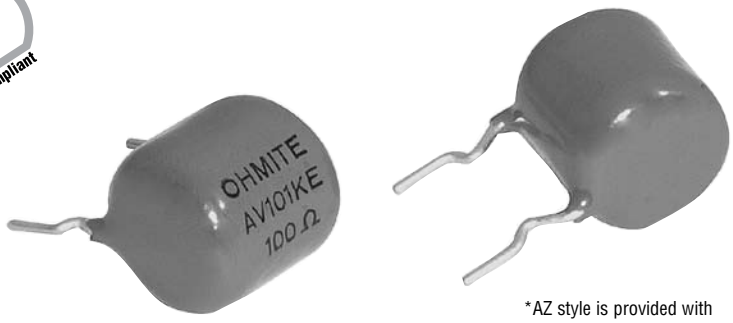
A Series

PulsEater® Ceramic Composition Available in E12 Ohmic values



*AZ style is provided with dual terminal wires

The "A" Series non-inductive, ceramic composite resistors are designed for a variety of applications where high energy handling capabilities are crucial. These resistors are ideal for any application which is subject to surges, high peak power, or impulse energy.

Their unique design allows uniform distribution of energy throughout their structure which results in low thermal stress. The high-temperature, solvent-resistant epoxy coating carries a UL94V0 flammability rating which is suitable for almost any environment.

FEATURES

- High Surge Energy
- Non-Inductive
- Small Size

APPLICATIONS

- Motor Drives
- Power Supplies, UPS
- Power Conversion
- In-Rush Current Limiting

SERIES SPECIFICATIONS

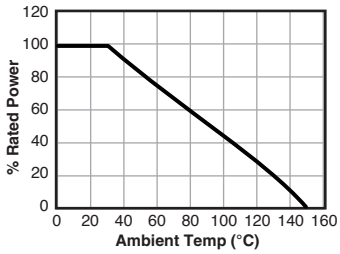
Series	Resistance[1] (ohms)	P avg.[2] (watts)	Impulse Voltage[3] (volts)	Energy[4] (joule)
AV	3.3 to 10K	2.0	1000	250
AW	4.7 to 15K	2.5	1500	400
AX	1.0 to 3.3K	3.5	1000	700
AY	2.2 to 6.8K	4.5	2000	1400
AZ	1.5 to 4.7K	5.5	2500	2800

[1]E12 Standard Values ±10%; [2]Free Air 40°C Ambient; [3]In Air; [4]Single Impulse

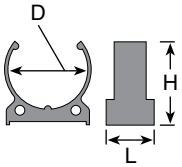
CHARACTERISTICS

Resistance Element	Bulk Ceramic
Terminals	Radial; 100% Sn solder coated radial (60/40 solder available upon request)
Coating	UL94V0, solvent resistant epoxy
Tolerance	±10% Standard
Operating Temp. Range	-55°C to 150°C
Derating	Derates linearly from 100% @ 50°C to 0% @ 150°C
Temperature Rise	100°C @ 100% rated power, 50°C ambient

Derating



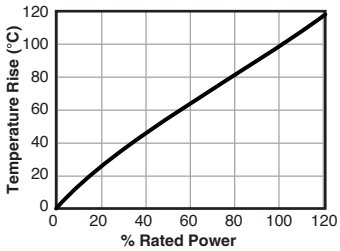
Mounting clip



Part No.	Dim. (mm) D	H	L	for Series	Color
5911E	20	23	13	AX and AY	White
5910E	25	26	15	AZ	Black

This saddle clip conforms to the configuration of Ohmite's A Series resistor to provide secure mounting. Made of a durable thermoplastic polyester, the saddle clip is designed to secure the A Series in place while safely withstanding its operating temperatures. Use (2) saddle clips per resistor for extra stability.

Surface Temperature Rise vs. Applied Power



(continued)

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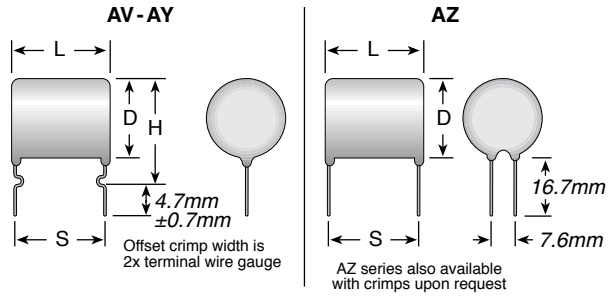
DIMENSIONS



Series	P avg.2 (watts)	L max. (mm)	D max. (mm)	H max. (mm)	S norm. (mm)	Term. wire gauge (AWG)	Weight (g)
AV	2.0	15	13	22	12.5	20	3.9
AW	2.5	20	13	22	17.5	20	5.4
AX	3.5	15	21	28	12.5	18	10
AY	4.5	25	21	28	22.5	18	19
AZ	5.5	30	26		27	18	33

ORDERING INFORMATION

RoHS compliant

A W 5 6 G K E

Size

Ohm Value
Example:
33G = 3.3 Ohms
330 = 33 Ohms
331 = 330 Ohms

Tolerance
K = 10% std.
M = 20%

Standard Values

Ohmic value	Part No. Prefix ➤ Suffix ▼	AV	AW	AX	AY	AZ
1.0	10GK			✔		
1.2	12GK					
1.5	15GK					✔
1.8	18GK					
2.2	22GK			✔	✔	
2.7	27GK					
3.3	33GK	✔		✔	✔	✔
3.9	39GK			✔		✔
4.7	47GK	✔	✔		✔	
5.6	56GK					
6.8	68GK		✔			
8.2	82GK				✔	
10	100K	✔	✔	✔	✔	✔
12	120K					
15	150K	✔	✔		✔	
18	180K					
22	220K	✔	✔	✔	✔	✔
27	270K		✔			
33	330K		✔	✔	✔	✔
39	390K	✔	✔		✔	✔
47	470K	✔	✔		✔	
56	560K		✔		✔	
68	680K		✔		✔	✔
82	820K				✔	
100	101K	✔	✔	✔	✔	✔
120	121K					
150	151K	✔	✔		✔	
180	181K					
220	221K	✔	✔			✔
270	271K					
330	331K			✔	✔	✔
470	471K	✔	✔		✔	
560	561K					
680	681K		✔		✔	
820	821K		✔		✔	
1000	102K	✔	✔	✔	✔	✔

Check product availability at **www.ohmite.com**

✔ = Standard values Non-standard values subject to a minimum handling charge per item.

rev 1/20-1