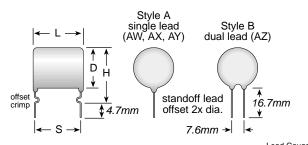
A Series

PulsEaters® Ceramic Composition Resistors Available in E12 Ohmic values



Lead Gauge: AW = 20AWG AX = 18AWG AY = 18AWG AZ = 18AWG

AZ style is provided with dual leads

The "A" Series of 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 . DataSheet4U.com
- Power Supplies, UPS
- Power Conversion
- In-Rush Current Limiting

SPECIFICATIONS

Material

Resistance Element: Bulk Ceramic

Terminals: Solder coated radial leads (axial lead version available upon request)

Coating: UL94V0, solvent resistant epoxy

Electrical

Tolerance: ± 10% Standard;

±5% Special Order

Derating: Derates linearly from 100% @ 50°C to 0% @ 150°C

Temperature Rise: 100°C @ 100% rated power, 50°C ambient

Series	Resistance ¹ (Ohms)	•			max.	norm.	Impulse Voltage ³ (Volts)	
AW xxx	4.7 to 15K		20	-		17.5	1500	400
AX xxx	1.0 to 3.3K	3.5	15	21	31	12.5	1000	700
AY xxx	2.2 to 6.8K	4.5	25	21	31	22.5	2000	1400
AZ xxx	1.5 to 4.7K	5.5	30	26	36	27	2500	2800
¹ E12 Standard Values ±10%; ² Free Air 40°C Ambient; ³ In Air; ⁴ Single Impulse								

ORDI	ERING INFO	RMATION	
Size AW = 2.5W AX = 3.5W AY = 4.5W		Tolerance K= 10% Standard J = 5% Special order	

STANDARD SPECIFICATIONS				
Parameter	Maximum ∆R	Test Method		
Life Test	+5%	MIL-STD-202F, method 108A. except 50°C, 1000 hrs. @ rated power; 1.5 hrs. ON, 0.5 hrs. OFF		
Single Pulse Energy	±1.5%	Single pulse, capacitor discharge at Rated Energy; 350VDC for AW and AX sizes; 650VDC for AY and AZ sizes.		
Repetitive HV Pulsing	±2.0%	10 joules @ 5.0KV, 10,000 cycles		
Short-time Overload	±1.5%	10x rated power. 5 seconds ON, 5 seconds OFF, 5 cycles		
Short-term High Temp	±1.5%	250°C for 30 seconds		
Long-term High Temp	±2.0%	1000 hours @ 150°C		
Thermal Shock Cycle	±2.0%	MIL-STD-202F, method 107D55°C to +125°C, 5 cycles		
Moisture Resistance	±1.0%	90% to 95% rh @ 40°C, 1000 hrs.		

A SERIES STOCK VALUES					
Part No. Prefix ➤ AX X X X X X X X X X X X X X X X X X	Series Part No. Prefix >	Series Part No. Prefix ➤	Part No. Prefix ➤ WX Y XY Suffix Y		
1.0—10GK /	5.6 — 56GK V	33 —330K V V V	220 ——221K V V V		
1.2 ——12GK 1.5 ——15GK ✓	6.868GK V V 8.282GK V V	39390K V V V V 47470K V V	270271K V V 330331K V V V		
1.8 ——18GK	10100K V V V	56 -—560K ✔ ✔	390391K V V V		
2.2—22GK V V	12120K	68680K V V V	470471K 🗸 🗸		
2.7 ——27GK ✓	15150K ✔ ✔	82820K 🗸 🗸	560561K ✓ ✓		
3.3 33GK V V	18180K	100101K V V V	680681K /		
3.9 ——39GK V V	22220K V V V	120121K	820821K 🗸		
4.7 — 47GK 🗸 🗸	27 ——270K 🗸 🗸	150151K 🗸 🗸	1000102K V V V		

✓ = Stock values

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