Series 500AS



Туре	Length (L)	Resistance Range (Ohms)	Average Power @ 40°C Amb. (Watts)	Peak* Energy @ 40°C Amb. (Joules)	Peak* Voltage** (Volts)	Resistor Weight (Grams)
502AS	2" (51 mm)	5-1,200	12	1,500	8,500	16
503AS	3" (76 mm)	9-2,200	18	2,700	16,000	24
504AS	4" (102 mm)	13-3,200	24	4,000	23,000	32
505AS	5" (127 mm)	17-4,200	30	5,200	30,000	40
506AS	6" (152 mm)	21-5,200	36	6,400	36,000	48
507AS	7" (178 mm)	25-6,200	42	7,700	43,000	56
508AS	8" (203 mm)	29-7,200	48	8,900	50,000	64
509AS	9" (229 mm)	33-8,200	54	10,100	57,000	72
510AS	10" (254 mm)	37-9,200	60	11,400	65,000	80

SPECIFICATIONS

Cost-Effective, Space-Saving Solutions *Based on energy absorption in less than 10 milliseconds.**Allowable peak energy/voltage will depend on the resistance value, consult factory. Peak impulse current rating is 200 amps, consult factory.

Bulk Ceramic Resistors Advantages

- Inherently non-inductive, high reliability due to bulk ceramic design
- Excellent pulse/overload capability
- Slim profile for excellent volumetric power efficiency
- Resistance tolerances 5%, 10%, 20% standard
- Resistance temperature coefficient of +0.00 to 0.08%/°C
- 230°C maximum operating temperature

High Energy and Voltage Pulse Typical Applications

- High voltage power supplies
- Capacitor charge/discharge
- Pulse test equipment
- Radar/broadcast transmitters
- Laser/imaging equipment

SERIES 500AS NON-INDUCTIVE BULK CERAMIC SLAB RESISTORS





Characteristics		
Operating Temperature	-55°C to +230°C	
Temperature Coefficient	+0.0 to -0.08%/°C	
Short Time Overload: Max. % change after 5 cycles — 10 times rated power, 5 seconds on, 90 seconds off	± 2%	
Load Life: Max. % change after 1000 hrs. rated power 1-½ hours on; ½ hour off	± 5%	
Thermal Shock: Max. % change after 10 cycles -55°C to +125°C	± 3%	
Moisture Resistance: Max. % change when tested per MIL-STD-202, Method 103	± 5%	

Typical Physical Properties	
Density	2.2 — 2.4 gm/cc
Specific Heat	0.22 — 0.24 cal/gm°C
Thermal Conductivity	0.003 — 0.006 cal/cm-°C-sec

Packaged Assemblies

Individual standard components can be packaged in series, parallel, or series/parallel arrays to optimize energy and power dissipation in the available space.

Ohmite Manufacturing Co. 27501 Bella Vista Parkway Warrenville IL, 60555

1-866-9-OHMITE Int'l 1-847-258-0300 Fax 1-847-574-7522 www.ohmite.com info@ohmite.com





