Braking / Energy-Dissipation Resistors
Custom and Standard

- Expert design to your form factor and electrical energy dissipation requirements
- Small form factor direct element liquid cooled resistors
- Air cooled resistors
- High power (KW) and High Energy (KJ) discharge
- Minimize storage system service downtime by quickly discharging dangerously high voltages and improve safety for service technicians

Product Examples

Direct Liquid Cooled
- 0.25 to 100 ohms configurations
- 50,000 watts for short time intervals
- Element in direct contact with coolant option
- No heatsinks
- Small mechanical form factor
- Non inductive option
- 300 mm wide x 50mm high (mechanical size varies according to value and power)

Liquid Cooled
- 0.5 to 56K ohm
- 5,000 watts for short intervals (10s)
- Non inductive option
- Up to six resistors on one tube
- 300 mm wide x 50mm high (mechanical size varies according to value and power)

High Energy Disc(s)
- 5 – 150 Ohms
- One disc up to 80KJ
- Single of multiple discs
- Natural cooling
- 21mm wide x 137mm high (single disk)

Air Cooled
- Many different ohmic values
- 1KW to 2MW power
- Stainless steel
- Natural of forced, air cooling
- Mechanical size varies according to value and power

Request a Quote
Surge and Sustainable Power Handling Capability

Additional Power Products:
- Many values and configurations
- Highlighted Product: Thick Film Module
  - 0.27 to 18 ohm
  - Energy absorption
    - Repetitive operation: 25 J/t = 50 μs
    - Accidental operation: 100 J/t = 50 μs / 100 impulsions max.
  - 750 watts
  - Non inductive
  - Thick film on ceramic construction
  - 67mm wide x 40mm wide

About ES Components:
ES Components LLC is a 37+ year old company.
NEW! Now a Woman Owned small business Franchised Distributor and Stocking Technical Sales Representative.
Certifications: AS9120 – ITAR Registered – JESD31
Customers worldwide depend on ESC for the products and services they need to design, develop, and manufacture the most leading edge high reliability products.

Applications:
- Braking
- Industrial
- Railroad
- Military
- Electric/Hybrid Cars and Buses
- Grid Storage
- Wind Farms
- Solar Farms

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