DC Applications
Transient Voltage Filters

RDS

Specifications

Electrical

Input Voltage: Up to 500VDC
Resistance: 10 to 680 ohms, ±10%, 0.5 watt
Diode: 1 Amp @ 400 or 1,000PIV
Varistors:

Voltage Code	Max. Allowable DC Voltage	Max. Clamping Voltage	Energy (Joules)
1	170VDC	340V @ 10A	10
3	320VDC	650V @ 10A	17
7	200VDC	395V @ 25A	25

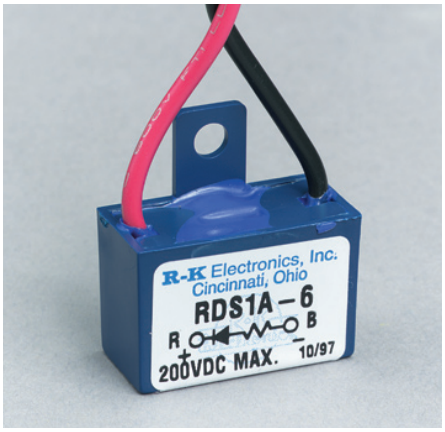
Reverse Leakage Current: <50 microamps

Physical

Termination: #18 Stranded Wire Leads or #20 Solid Wire Leads
Packaging: Epoxy Filled
Weight: 1 Oz.

Ambient Temperatures

Operating: -40°C to 85°C
Storage: -40°C to 85°C



- **Up to 170 to 500 Volt Ratings**
- **DC Applications**
- **Varistor Options**
- **Stranded Wire or Solid Wire Leads**

Ordering Information

RD S 1 B - 6

R-K Model

Arrangement
S - Single Phase

Voltage Series
1 - 200VDC, Max. 170VDC with Varistor
3 - 500VDC, Max. 320VDC with Varistor
7 - 500VDC, Max. 200VDC with Varistor

DIN Rail Bracket #DRB-1

Resistors
A - 220 Ohms
B - 22 Ohms
C - 33 Ohms
D - 47 Ohms
E - 68 Ohms
F - 82 Ohms
G - 100 Ohms
H - 150 Ohms
J - 180 Ohms
K - 330 Ohms
L - 470 Ohms
M - 680 Ohms
S - 10 Ohms
W - Wire Jumper

Lead Length
6 - 6 Inches
__ - Specify Lead Length
SW - Solid Wire

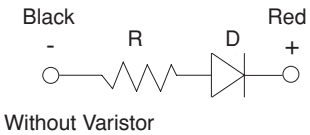
Varistor Option
V - Varistor

Operation

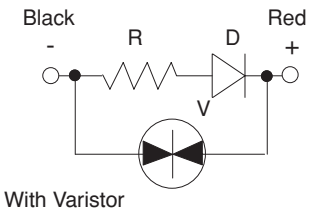
Transient Voltage Filters

R-D networks (Resistance-Diode) are applied to circuits where transient electrical voltages can cause a malfunction or damage in solid state controls or control systems (PLCs, CNCs, NCs, Solid State Counters, etc.). The RDSs are applied in parallel with DC (Direct Current) coils to absorb the transients generated when the coils are de-energized.

Connections



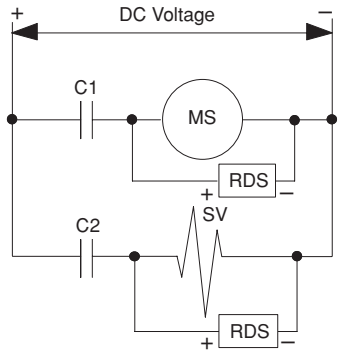
Without Varistor



With Varistor

Hook-Up Example

MS = Motor Starter SV = Solenoid Valve
C1 = Contact C2 = Contact
RDS = R-D Network



Dimensions