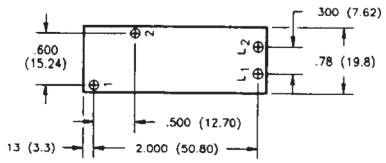
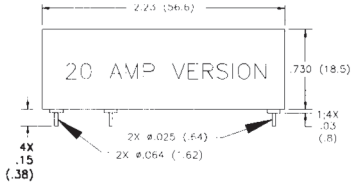
K81 A/B Series Make & Break Load Switching — 10 kV Relays

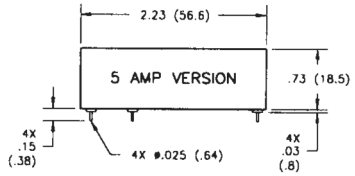
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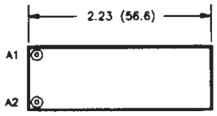
- **10 kV PC board-mount relay**
- **Vacuum dielectric for power switching low current loads**
- **Flying leads or PCB mount for high voltage connections**
- **Meets requirements of MIL-R-83725**
- **Completely sealed; suitable for test equipment**
- **Panel mount available for ease of mounting**



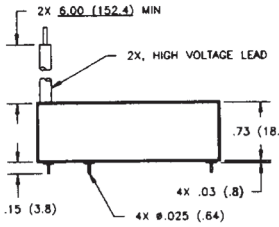


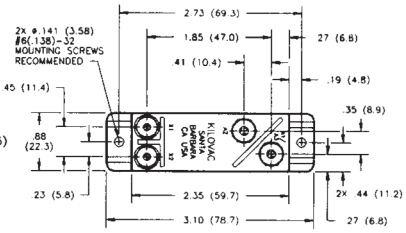


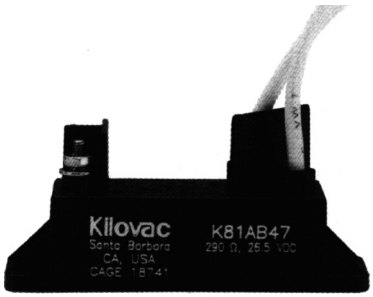


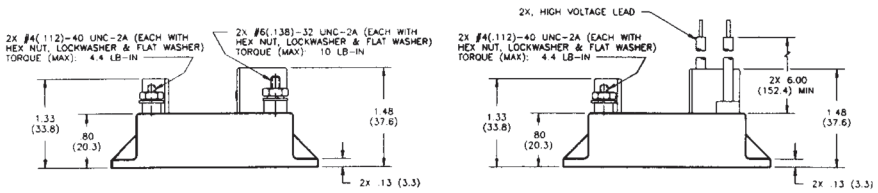












Product Specifications

Contact Arrangement —
K81A — SPST-NO
K81B — SPST-NC

Contact Form —
K81A — A
K81B — B

Test Voltage, DC or 60 Hz (Peak) — 11 kV

Rated Operating Voltage (Peak) — DC or 60 Hz — 10 kV

Continuous Carry Current, Max. — DC or 60 Hz — 5 A, 20 A or 30 A [1]
Coil Hi-Pot (Vrms, 60 Hz) — N/A

Contact Resistance, Max. — 0.03 ohm

Operate Time, Max. — 10 ms

Release Time, Max. — 10 ms

Shock, 11ms, 1/2 Sine (Peak) — 30 g

Vibration —
Peak — 10 g (55 to 500 Hz)

Operating Ambient Temperature Range — -55°C to +85°C

Mechanical Life — 2 million cycles

Weight, Nominal — 56.7 g (2 oz.)

Notes:
1. PC pin versions carry 5 or 20 Amps, see part number at right. Flying lead and panel versions carry 30 Amp.
*Power terminal on 20 Amp version is a larger diameter than on the 5 Amp version (.025 = 5 Amp, .064 = 20 Amp)

Coil Data

Volts, Nominal DC	12 V	26.5 V	115 V
Pickup, Max.	8 Vdc	16 Vdc	80 Vdc
Dropout	.5-5 Vdc	1-10 Vdc	5-50 Vdc
Coil Resistance (±10%)	70 Ω	290 Ω	4700 Ω

Ratings listed are for 25°C, sea level conditions

Ordering Information

Sample Part Number ▶ **K81 A 3 3 5**

Series:

Contact Form:
A = SPST-NO B = SPST-NC

Coil Voltage:
2 = 12 Vdc, PC Board 3 = 26.5 Vdc, PC Board
5 = 115 Vdc, PC Board
A = 12 Vdc, Stud Terminals, Panel Mount
B = 26.5 Vdc, Stud Terminals, Panel Mount
C = 115 Vdc, Stud Terminals, Panel Mount

High Voltage Connections:
A* = PCB Solder Connection — 20 Amp
3 = PCB Solder Connection — 5 Amp
4 = Flying Leads 5 = Stud Terminals

Mounting:
5 = PC Board 7 = Panel Mount

For factory-direct application assistance, dial 800-253-4560, ext. 2055, or 805-220-2055.

Catalog 5-1773450-5
Revised 3-13

www.te.com

Dimensions are shown for reference purposes only. Specifications subject to change.

Dimensions are in millimeters unless otherwise specified.

USA: +1 800 522 6752
Asia Pacific: +86 0 400 820 6015
UK: +44 800 267 666

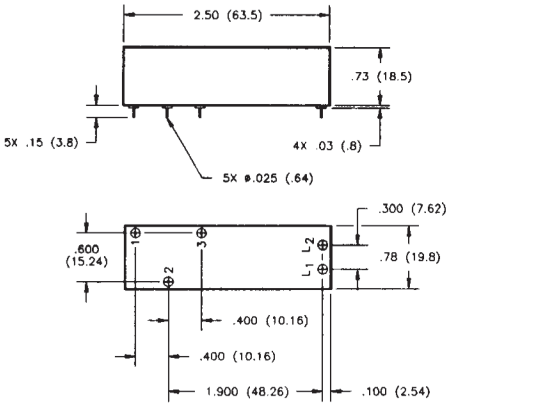
For additional support numbers please visit www.te.com

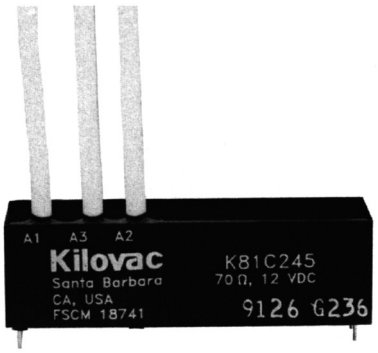
K81C Series Make & Break Load Switching — 10 kV Relays

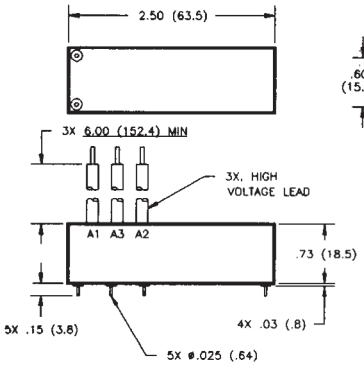
Product Facts

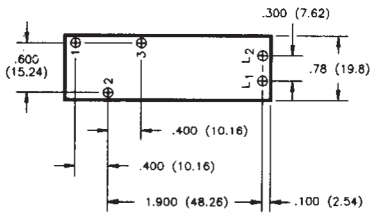
- **SPDT version of K81**
- **Vacuum dielectric for power switching low current loads**
- **Flying lead version will carry 10 Amps continuous current**
- **PCB mount version will carry 5 Amps continuous current**











Product Specifications

Contact Arrangement — SPDT

Contact Form — C

Test Voltage, DC or 60 Hz (Peak) — 11 kV

Rated Operating Voltage (Peak) — DC or 60 Hz — 10 kV

Continuous Carry Current, Max. — DC or 60 Hz — See Note 1
Coil Hi-Pot (Vrms, 60 Hz) — N/A

Contact Resistance, Max. — 0.05 ohm

Operate Time, Max. — 10 ms

Release Time, Max. — 10 ms

Shock, 11ms, 1/2 Sine (Peak) — 30 g

Vibration — Peak — 10 g (55 to 500 Hz)

Operating Ambient Temperature Range — -55°C to +85°C

Mechanical Life — 2 million cycles

Weight, Nominal — 70.87 g (2.5 oz.)

Note:
1. 5 Amp carry for PC pin versions. 30 Amp carry for flying lead versions.

Coil Data

Volts, Nominal DC	12 V	26.5 V	115 V
Pickup, Max.	8 Vdc	16 Vdc	80 Vdc
Dropout	.5-5 Vdc	1-10 Vdc	5-50 Vdc
Coil Resistance (±10%)	70 Ω	290 Ω	4700 Ω

Ratings listed are for 25°C, sea level conditions

Ordering Information

Sample Part Number ▶ **K81 C 3 3 5**

Series:

Contact Form:
C = SPDT

Coil Voltage:
2 = 12 Vdc, PC Board
3 = 26.5 Vdc, PC Board
5 = 115 Vdc, PC Board

High Voltage Connections:
3 = PCB Solder Connection
4 = Flying Leads

Mounting:
5 = PC Board

For factory-direct application assistance, dial 800-253-4560, ext. 2055, or 805-220-2055.

Catalog 5-1773450-5
Revised 3-13

www.te.com

Dimensions are shown for reference purposes only. Specifications subject to change.

Dimensions are in millimeters unless otherwise specified.

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