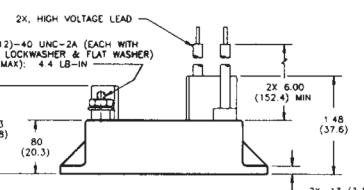
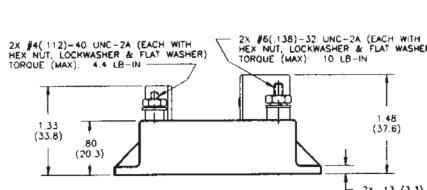
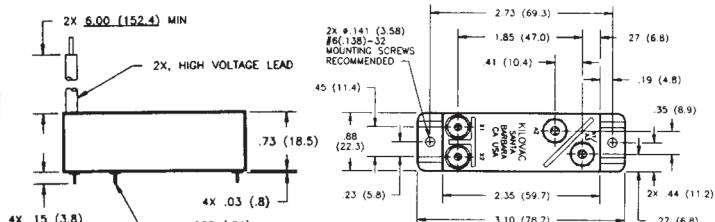
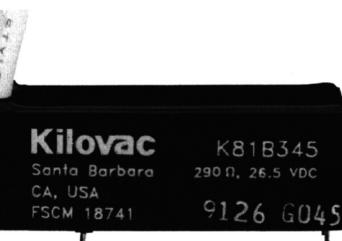
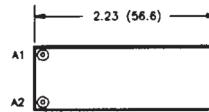
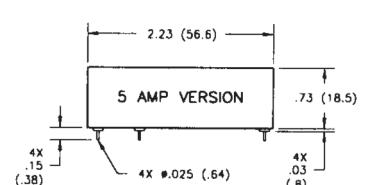
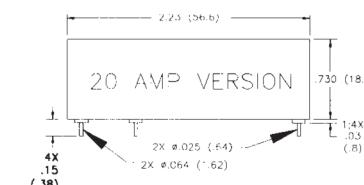
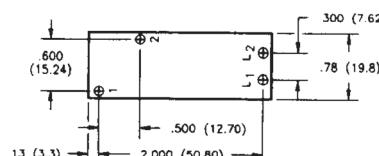
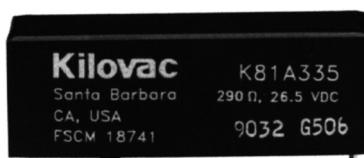
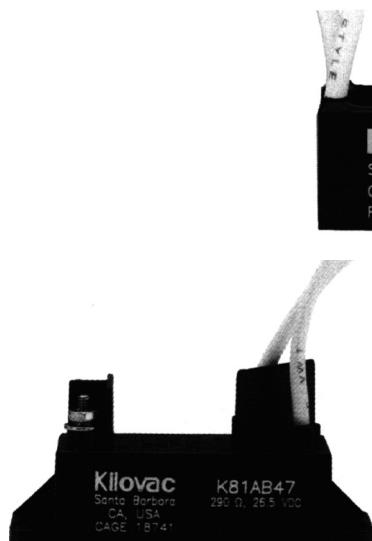


## K81 A/B Series Make & Break Load Switching — 10 kV Relays

### Product Facts

- 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

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)

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

#### 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.  
2. 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 ( $\pm 10\%$ )	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: \_\_\_\_\_

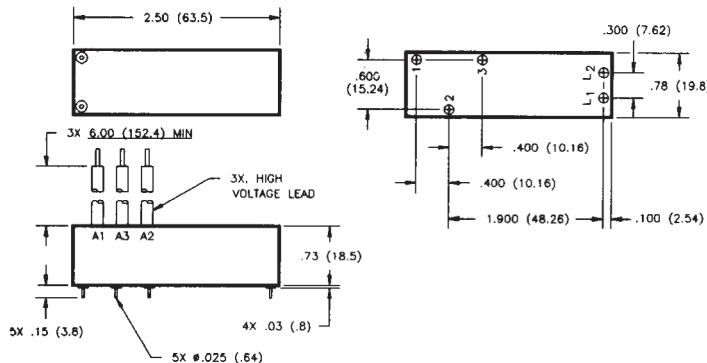
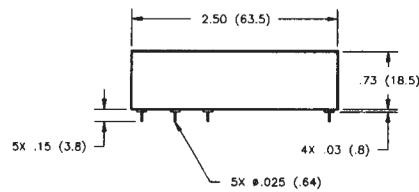
5 = PC Board

7 = Panel Mount

## 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 ( $\pm 10\%$ )	70 $\Omega$	290 $\Omega$	4700 $\Omega$

Ratings listed are for 25°C, sea level conditions

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

### 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

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