# 134 Series - Mercury Reed SPDT, DPDT, 2 Amp

The 134 series are single throw, normally open, miniature mercury reed relays. Reeds are hermetically sealed in glass tubes with trace amounts of liquid mercury to provide continuously refreshed contact surfaces for extremely long life.

The 131 series offers double throw contacts. Both are capable.

## **GENERAL SPECIFICATIONS (@ 25° C)**

#### Contacts:

Contact Configuration Up To DPDT Contact Material Liquid Mercury

Contact Rating
Load (maximum)
Switching Voltage (maximum)

Switching Current (maximum)

Carry Current (maximum)

50VA 500VDC 2 Amp 3 Amp

Contact Resistance, Initial 100 milliohms max @ 6VDC

#### Coil:

Coils Available DC
Coil Power Varies
Input Voltage Tolerance - DC
Drop-out voltge 10% of nominal
Duty Continuous

#### Timing:

Operate Time 2ms (typical w/o suppression) Release Time 2.5ms

(typical w/o supression)

#### Dielectric Strength:

Across Open Contacts 1,000VRMS
Between Mutally Insulated Points 1,000VRMS
Insulation Resistance 1,000 megohms @ 500VAC

#### Capacitance:

Across Open Contacts 0.9pF

#### Temperature:

Operating -37 to 85°C (-34.6 to 185°F) Storage -40 to 105°C (-40 to 221°F)

#### Life Expectancy:

Electrical (full load operations) 40,000,000 Mechanical (no load operations) 100,000,000

#### Miscellaneous:

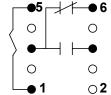
Enclosure Epoxy encapsulated
Mounting Position Vertical ±15°
Weight Varies

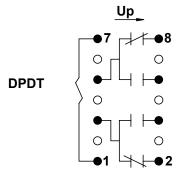


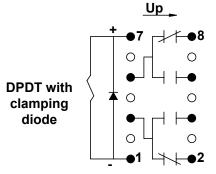
# 134 Wire Diagram (Top View)

Up\_

SPDT





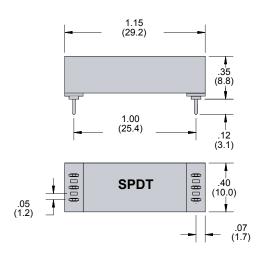


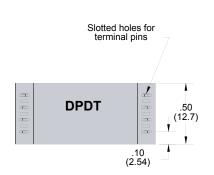


# **Reed Relays**

## **Outline Dimensions**

Dimensions Shown in inches & (millimeters)





## 134 Part Number Chart

154 Fait Number Chart								
						Maximum Contact Rating		
Part number	Nominal input voltage	Maximum pull-in	Minimum dropout	Nominal resistance (ohms)	Nominal power (mW)	Maximum switching load	Switching current and voltage	Carry current (Amps)
SPDT Mercury								
134MPCX-1 134MPCX-2 134MPCX-3	5 12 24	4 9 18	0.5 1 2	60 330 1400	417 435 410	50VA	1 Amps 500VDC	2 Amps
DPDT Mercury								
134MPCX-7 134MPCX-8	5 12	4 9.6	0.5 1	45 230	560 620	50VA	1 Amp 500VDC	2 Amp
DPDT Mercury with Clamping Diode								
134MPCX-10 134MPCX-11	5 12	4 9.6	1 1	45 230	560 620	50VA	1 Amp 500VDC	2 Amp

