

#### Features

- 1 Form C model rated to 5 amps; 2 Form C to 2 amps.
- Standard 0.1" grid spacing.
- DC coils through 48 volts.
- Immersion cleanable, tape sealed case.

### Contact Data @ 25°C

Arrangements: 1 Form C (SPDT) and 2 Form C (DPDT).

Ratings: Code Y: 2A, resistive @ 28VDC; 1A, resistive @ 120VAC. Code X: 5A, resistive @ 28VDC; 2.5A, resistive @ 120VAC.

Expected Mechanical Life: 10 million operations.

Expected Electrical Life: Code Y: 100,000 operations.

Code X: 600,000 operations.

Initial Contact Resistance: 50 milliohms, max.

**Initial Dielectric Strength** 

Between Open Contacts: Contact Code Y: 500V rms, 60 Hz.

Contact Code X: 1,000V rms, 60 Hz. **Between All Other Conductors:** Contact Code Y: 500V rms, 60 Hz.

Contact Code X: 1,000V rms, 60 Hz.

### **Initial Insulation Resistance**

Between Mutually Insulated Conductors: 109 ohms.

#### Coil Data @ 25°C

Voltage: 5 through 48VDC.

Max. Power: 2 watts.

Maximum Coil Temperature: 105°C.

# Coil Data @ 25°C

	R50-E2Y1			R50-E2Y2			R50-E2X1		
Nom. Voltage (VDC)	Nom. Power (mW)	Max. Voltage (VDC)	Res. ±10% (Ohms)	Nom. Power (mW)	Max. Voltage (VDC)	Res. ±10% (Ohms)	Nom. Power (mW)	Max. Voltage (VDC)	Res. ±10% (Ohms)
5	758	6.25	33	893	6.0	28	962	6.7	25
6	750	7.5	48	900	7.2	40	973	8.7	37
12	750	15.0	192	900	14.5	160	1,152	16.0	125
24	750	30.0	768	900	28.0	640	1,309	30.0	440
48	753	60.0	3,060	904	57.0	2,550	1,194	63.0	1,930

Diode suppression necessary for higher coil voltages

# R50 series

# 2 And 5 Amp Washable Relay For 0.7" (18mm) PC Board Spacing

**File** E29244

File LR15734

### Operate Data @ 25°C

**Must Operate Voltage:** 75% of nominal voltage or less. **Must Release Voltage:** 5% of nominal voltage or more.

Operate Time (Excluding Bounce)†: Contact Code Y: 6 ms, typ. Contact Code X: 10 ms, typ. Release Time (Excluding Bounce)†: Contact Code Y: 6 ms, typ.

Contact Code X: 10 ms, typ.

† At or from Nominal Coil Voltage

#### **Environmental Data**

Temperature Range: -55°C to +50°C.

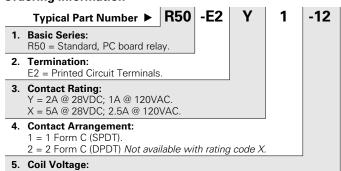
#### Mechanical Data

**Termination:** Printed circuit terminals. **Enclosure:** Tape sealed polyester case.

Weight: R50-E2Y1: 0.3 oz. (8.5g) approximately.

R50-E2Y2 & R50-E2X1: 0.5 oz. (14g) approximately.

## Ordering Information



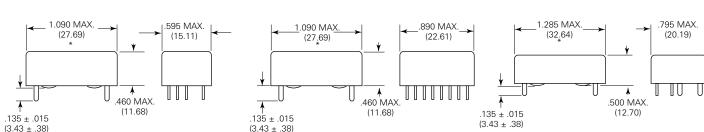
# Stock Items - The following items are maintained in stock.

R50-E2X1-5 R50-E2Y1-5 R50-E2Y1-24 R50-E2X1-12 R50-E2Y1-6 R50-E2Y1-48 R50-E2X1-24 R50-E2X1-24 R50-E2X1-12 R50-E2X1-12

R50-E2X1

# **Outline Dimensions**

R50-E2Y1

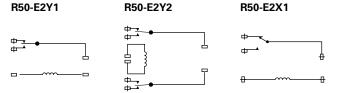


R50-E2Y2

\* Recommend tape tab be removed before relay is put in service

Note: To fasten relay on PC board do not bend stationary contact terminals as this damages adjustment.

# Wiring Diagrams (Bottom Views)



Siemens Electromechanical Components, Inc. 700 Westpark Drive Peachtree City, GA 30269-1498

# PC Board Layouts (Bottom Views)

