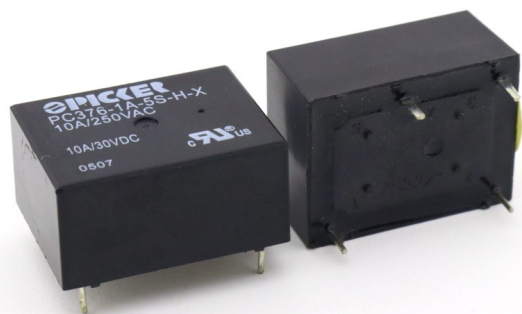


Subminiature PCB Power Relay

PC376



FEATURES

- 10 Amp continuous Contact Capacity
- 1 Form A Contact Form
- Subminiature Design
- Class "B" Insulation Standard
- Sensitivity Version Available
- Sealed or Flux Free Covers Available
- RoHS Compliant

CROSS REFERENCES

| |
|--|
| Omron G5CA |
| Example: G5CA-1A4-E-DC12 Crosses to PC376-1A-12S-X |
| TE PCD |
| Example: PCD-112D1M,000 Crosses to PC376-1A-12CF-X |
| Song Chuan 201N |
| Example: 201N-1AH-F-12VDC Crosses to PC376-1A-12CF-X |

UL / CUL Ratings



| | | |
|------------------------|-----------------|------|
| Rated Load | 1A SPST | |
| | NO | |
| General Purpose | 250 VAC | 16 A |
| Max. Switching Power | 480 W 4,000 VA | |
| Max. Switching Voltage | 110 VDC 380 VAC | |
| Max. Switching Current | 16 A | |

CONTACT DATA

| | | |
|----------------------------|------------|--------------------------------|
| Material | AgCdO | |
| Initial Contact Resistance | 50 mΩ Max. | |
| Service Life | Mechanical | 1 X 10 ⁷ Operations |
| | Electrical | 1 X 10 ⁵ Operations |

CHARACTERISTIC

| | |
|-----------------------|---|
| Operate Time | 10 ms. Max. |
| Release Time | 5 ms. Max. |
| Insulation Resistance | 100 MΩ min, at 500 VDC |
| Dielectric Strength | 750 V, 50 Hz, Between Open Contacts |
| | 1,500 V, 50HZ, Between oil and Contacts |
| Shock Resistance | 1000 m/s ² 11 ms |
| Power Consumption | 200 mW, 450 mW |

CHARACTERISTIC Continued

| | |
|-----------------------|---------------------------------------|
| Vibration Resistance | 10 Hz - 55 Hz Double Amplitude 1.5 mm |
| Terminal Strength | 10N |
| Solderability | 260°C for 5 seconds |
| Operating Temperature | - 40°C - 85°C Class B |
| Operating Temperature | - 40°C - 125°C Class F |
| Relative Humidity | 85% at 20°C |
| Weight | 10 g |

ORDERING INFORMATION

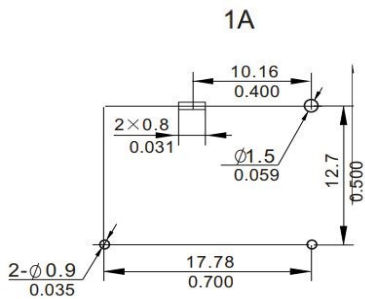
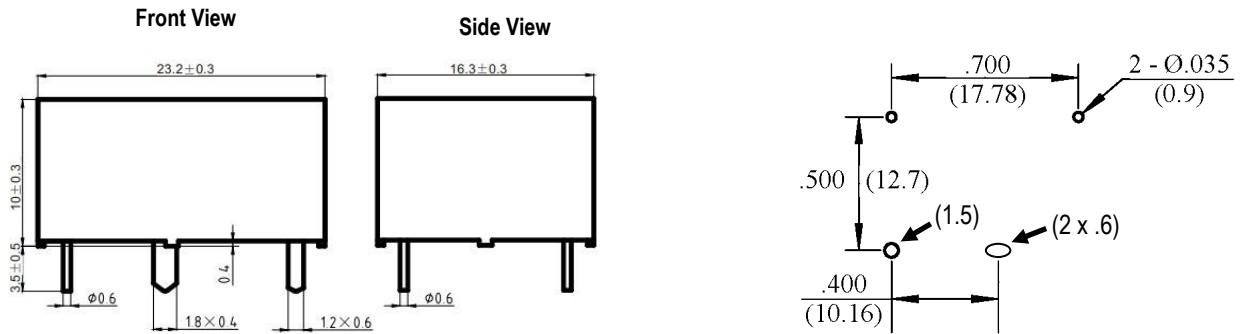
| | | | | | | |
|----------------------|--|-----|-----|---|----|----|
| Example: | PC376 | -1A | -12 | S | -H | -X |
| Model: | PC376 | | | | | |
| Contact Form: | 1A | | | | | |
| Coil Voltage: | 3, 5, 6, 9, 12, 18, 24, 48 | | | | | |
| Enclosure: | S: Sealed; C: Flux Free | | | | | |
| Insulation Material: | Nil: Class B; F: Class F | | | | | |
| Coil Sensitivity: | Nil: Standard 450 mW; H: Sensitive 200 mW | | | | | |
| RoHS Compliant: | -X | | | | | |

Box Quantity: 2,000; Inner Box 1,000

COIL DATA

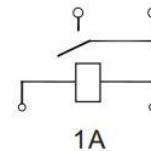
| Coil Voltage (VDC) | | Resistance ohms ± 10% | Must Operate Voltage Max (VDC) | Must Release Voltage Min. (VDC) | Coil Power (W) | Coil Sensitivity |
|--------------------|-------|-----------------------|--------------------------------|---------------------------------|----------------|------------------|
| Rated | Max | | | | | |
| 5 | 6.5 | 125 | 3.75 | 0.25 | 200 mW | H |
| 6 | 7.8 | 180 | 4.50 | 0.30 | | |
| 9 | 11.7 | 405 | 6.75 | 0.45 | | |
| 12 | 15.6 | 720 | 9.00 | 0.60 | | |
| 18 | 23.4 | 1620 | 13.5 | 0.90 | | |
| 24 | 31.2 | 2880 | 18.0 | 1.20 | | |
| 48 | 52.8 | 9216 | 38.4 | 2.40 | | |
| 5 | 6.5 | 56 | 3.75 | 0.25 | 450 mW | Nil |
| 6 | 7.8 | 80 | 4.50 | 0.30 | | |
| 9 | 11.7 | 180 | 6.75 | 0.45 | | |
| 12 | 15.6 | 320 | 9.00 | 0.60 | | |
| 18 | 23.4 | 720 | 13.5 | 0.90 | | |
| 24 | 31.2 | 1280 | 18.0 | 1.20 | | |
| 48 | 52.8 | 5,120 | 38.4 | 2.40 | | |
| 100 | 130.0 | 166,600 | 80.0 | 10.0 | | |

DIMENSIONS in Inches (mm)



Terminal (Bottom View)

PCB Mounting (Top View)



Wiring Diagram