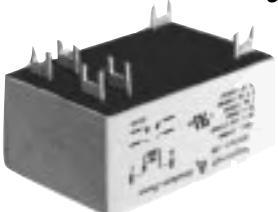
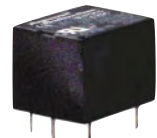
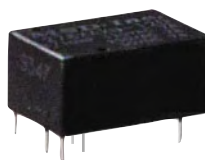







# PRINTED CIRCUIT BOARD RELAYS

 <p><b>92</b></p>	 <p><b>7</b></p>	 <p><b>60</b></p>	 <p><b>A178</b></p>
<p><b>L W H</b> 2.06 x 1.36 x 1.356</p>	<p><b>L W H</b> 0.410 x 0.410 x 0.553</p>	<p><b>L W H</b> 1.10 x 0.600/0.895 x 0.745</p>	<p><b>L W H</b> 0.750 x 0.611 x 0.630</p>
<ul style="list-style-type: none"> <li>EPOXY SEALED IMMERSION CLEANABLE WITH TAPE SEAL</li> <li>CLASS "F" INSULATION SYSTEM</li> <li>SEE SECTION 1 FOR FLANGE MOUNT STYLE WITH 1/4" &amp; 3/16" QUICK CONNECT TERMINALS</li> </ul>	<ul style="list-style-type: none"> <li>MICRO MINIATURE SIZE</li> <li>CONFORMS TO FCC PART 68.302, 1500V SURGERESISTANCE, FCC 68.3041000V DIELECTRIC STRENGTH</li> <li>EXCELLENT R.F. SWITCHING CHARACTERISTICS</li> <li>HIGH SHOCK &amp; VIBRATION RESISTANCE</li> <li>PRINTED CIRCUIT BOARD MOUNTING ON 0.1 GRID PATTERN</li> <li>94V-0 PLASTIC, EPOXY SEALED</li> </ul>	<ul style="list-style-type: none"> <li>MINIATURE SIZE</li> <li>CONFORMS TO FCC PART 68.302, 1500V SURGE RESISTANCE, FCC 68.3041000V DIELECTRIC STRENGTH</li> <li>EXCELLENT R.F. SWITCHING CHARACTERISTICS</li> <li>HIGH SHOCK &amp; VIBRATION RESISTANCE</li> <li>PRINTED CIRCUIT BOARD MOUNTING ON 0.1 GRID PATTERN</li> </ul>	<ul style="list-style-type: none"> <li>MINIATURE EPOXY SEALED</li> <li>PRINTED CIRCUIT BOARD MOUNTING</li> <li>SWITCHES UP TO 15 AMP LOADS</li> <li>CLASS "B" OR "F" INSULATION SYSTEM</li> <li>IMMERSION CLEANABLE</li> <li>DISPLACES APPROXIMATELY 0.29 CUBIC INCH</li> </ul>
<p><b>DPST-NO. &amp; DPDT</b></p>	<p><b>SPDT &amp; DPDT</b></p>	<p><b>SPDT &amp; DPDT</b></p>	<p><b>SPST</b></p>
<p>SILVER CADMIUM OXIDE</p>	<p>GOLD CLAD SILVER</p>	<p>GOLD CLAD SILVER</p>	<p>SILVER ALLOY</p>
<p><b>DPDT-NO:</b> 30A, 277 VAC. 20A, 28 VDC <b>DPST-NO:</b> 30A, 277 VAC. 20A, 28 VDC <b>DPDT-NC:</b> 3A, 277 VAC, 28 VDC</p>	<p><b>DPDT:</b> 2 AMP, 24 VDC, 0.6AMP, 100 VAC <b>SPDT:</b> 2 AMP, 120 VAC, 50 uA, 50 mV MIN 2 AMP, 24 VDC</p>	<p><b>DPDT:</b> 2 AMP, 24 VDC, 1 AMP, 100 VAC <b>SPDT:</b> 2 AMP, 120 VAC 50 uA, 50 mV MIN</p>	<p>12 AMP, 120 VAC, 30 VDC 10 AMP, 150 VAC</p>
<p>24, 120 &amp; 240 VAC 12, 24, 48 &amp; 110 VDC</p>	<p>5, 12, &amp; 24 VDC</p>	<p>5, 12, &amp; 24 VDC</p>	<p>3, 5, 12, 24 &amp; 48 VDC</p>
<p>4 VA 1.7 WATTS</p>	<p>- 327 MILLIWATTS MAX</p>	<p>- 327 MILLIWATTS MAX</p>	<p>- 0.36 WATTS</p>
<p>DC: - 40°C TO +85°C AC: - 40°C TO +65°C - 55°C to +155°C</p>	<p>- 35°C TO +70°C</p>	<p>- 35°C TO +70°C</p>	<p>- 40°C TO +70°C - 40°C TO +80°C</p>
<p>4000 V rms</p>	<p>500 V rms</p>	<p>500 V rms</p>	<p>1500 V rms</p>
<p>5,000,000 OPERATIONS 100,000 OPERATIONS</p>	<p>100,000,000 OPERATIONS 100,000 OPERATIONS</p>	<p>100,000,000 OPERATIONS 100,000 OPERATIONS</p>	<p>100,000 OPERATIONS 10,000,000 OPERATIONS</p>
 UL Recognized File No. E43641	 UL Recognized File No. E52197	 UL Recognized File No. E52197	 UL Recognized File No. E195668

# PRINTED CIRCUIT BOARD RELAYS

## RELAY SERIES



49

ISO 9002  
QS 9000



976

ISO 9002  
QS 9000



276

## FEATURES

**L W H**  
1.25 x 0.759 x 1.14

- DUST COVERED
- DISPLACES APPROXIMATELY 1.1 CUBIC INCH
- VARIETY OF MOUNTING CONFIGURATIONS
- TV-5 RATINGS AVAILABLE

**L W H**  
1.161 x 0.512 x 1.000

- EPOXY SEALED IMMERSION CLEANABLE
- MEETS 8 MILLIMETER SPACING COIL TO CONTACTS
- MEETS 4KV DIELECTRIC WITHSTANDING VOLTAGE

**L W H**  
0.807 x 0.50 x 0.394

- SUBMINIATURE EPOXY SEALED IMMERSION CLEANABLE
- STANDARD 0.1 GRID PATTERN
- SINGLE SIDE STABLE DESIGN
- 5KV SURGE RESISTANCE COIL TO FRAME
- MEETS 4mm INTERNATIONAL SPACING COIL TO CONTACT

## CONTACT DATA

CONTACT CONFIGURATION:

**SPDT**

**SPDT & DPDT**

**SPST-NO. & SPDT**

CONTACT MATERIAL:

SILVER CADMIUM OXIDE  
SILVER, GOLD PLATED

SILVER CADMIUM OXIDE

SILVER ALLOY

MAX. CONTACT RATING:

3 AMP, 120 VAC, 28 VDC  
(15 AMP, 150 VAC, 28 VDC)  
5 AMP, 120 VAC, 28 VDC  
10 AMP, 120/240 VAC, 28 VDC  
(15 AMP, 150 VAC, 28 VDC)

**SPDT:**  
20 AMP, 125 VAC, 30 VDC  
10AMP, 48 VDC,  
16 AMP, 250VAC, 30 VDC  
**DPDT:**  
5 AMP, 250 VAC, 30 VDC

**SPST-NO:**  
10AMP, 250 VAC/30 VDC  
**SPDT:**  
7 AMP, 250 VAC/30 VDC

## COIL DATA

STANDARD VOLTAGE

AC:  
DC:

3, 5, 6, 12, 24 VDC

24, 120 & 240 VAC  
5, 6, 12 & 24 VDC

5, 6, 12, & 24 VDC

NOMINAL COIL POWER  
VA: (VAC)  
WATTS: (VDC)  
INSULATION SYSTEM PER  
UL STANDARD 1446

400 MILLIWATTS

1.2 VA  
0.54 WATTS

200 MILLIWATTS

## GENERAL DATA

AMBIENT TEMPERATURE  
OPERATING:

- 55°C TO +85°C

- 20°C TO +55°C

- 40°C TO +70°C

STORAGE:

- 55°C TO +130°C

- 40°C TO +80°C

DIELECTRIC STRENGTH:  
(COIL TO FRAME)

1500 V rms

5000 V rms

2000 V rms

LIFE EXPECTANCY  
ELECTRICAL:  
MECHANICAL:

100,000 OPERATIONS  
50,000,000 OPERATIONS

100,000 OPERATIONS  
10,000,000 OPERATIONS

100,000 OPERATIONS  
2,000,000 OPERATIONS

## AGENCY APPROVALS



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