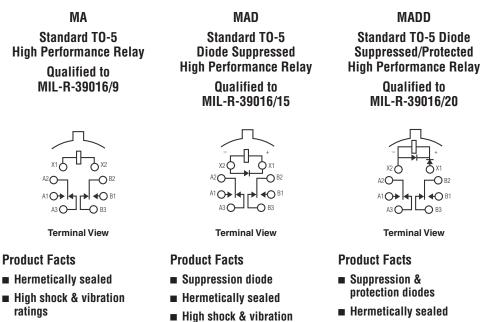


# Double Pole, Electrically Held, 1 Amp and Less





- Spreader pads
- Excellent RF switching
- ratings Spreader pads
- Excellent RF switching

- High shock & vibration ratings
- Spreader pads
- Excellent RF switching

#### **Electrical Characteristics**

Contact Arrangement -

2 Form C (DPDT)

Contact Material -Stationary -Gold/platinum/palladium/silver alloy (gold plated) Moveable -Gold/platinum/palladium/silver alloy (gold plated)

#### Contact Resistance -

Before Life — 100 milliohms max. (measured @ 10 mA @ 6 Vdc) After Life — 200 milliohms max. (measured @ 1 A @ 28 Vdc)

#### Mechanical Life Expectancy — 1 million operations

Coil Voltage -5 to 30 Vdc (MA/MAD) 5 to 26.5 Vdc (MADD)

Coil Power — 675 mW max. @ 25°C

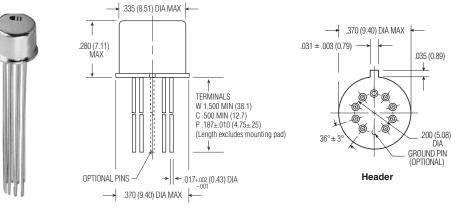
Duty Cycle — Continuous Pick-up Voltage — Approximately

50% of nominal coil voltage Pick-up Sensitivity

130 mW max. @ 25°C

# **Contact Ratings**

| Contact<br>Load                  | Туре                          | Operations<br>Min. |  |
|----------------------------------|-------------------------------|--------------------|--|
| 1.0 A @ 28 Vdc                   | Resistive                     | 100,000            |  |
| 250 mA @ 115 Vac, 60 Hz & 400 Hz | Resistive (case not grounded) | 100,000            |  |
| 100 mA @ 115 Vac, 60 Hz & 400 Hz | Resistive                     | 100,000            |  |
| 0.2 A @ 28 Vdc                   | Inductive (0.32 Henry)        | 100,000            |  |
| 0.1 A @ 28 Vdc                   | Lamp                          | 100,000            |  |
| 30 µA @ 50 mVdc                  | Low Level                     | 1,000,000          |  |
| 0.1 A @ 28 Vdc                   | Intermediate Current          | 50,000             |  |





Dimensions are in millimeters unless otherwise specified.

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Revised 3-13

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Catalog 5-1773450-5 reference purposes only. Specifications subject to change.

Dimensions are shown for



# Double Pole, Electrically Held, 1 Amp and Less (Continued)

MA, MAD, MADD (Continued)

### **Operating Characteristics**

Operate Time — 2.0 ms max.

MAD/MADD — 4.0 ms max.

Between Open Contacts -

Between Adjacent Contacts -----

Between Contacts & Coil -

(suppression diode, suppression/

Contact Bounce — 1.5 ms max

Dielectric Withstanding Voltage -

Timing ·

Release Time -

steering diodes)

500 Vrms 60 Hz

500 Vrms 60 Hz

500 Vrms 60 Hz Insulation Resistance — 10,000 megohms min. @ 500 Vdc 1,000 megohms @ 500 Vdc (coil to case @ +125°C)

MA - 1.5 ms max.

## **Environmental Characteristics**

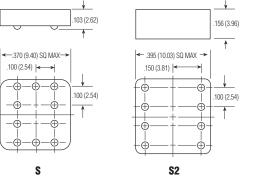
Temperature Range — -65°C to +125°C Weight -0.09 oz. (2.55 grms) 0.10 oz. (2.80 grms) with spreader pad attached Vibration Resistance —

#### 30 G's, 10 to 3,000 Hz Shock Resistance -75 G's, 6 ±1 ms max.

QPL Approval -MIL-R-39016/9 (JMA) MIL-R-39016/15 (JMAD) MIL-R-39016/20 (JMADD)

#### Semiconductor Characteristics Diode -

100 Vdc peak inverse voltage (PIV) 1.0 Vdc max. transient voltage







Spreader & Mounting Pads

| Nom.<br>Coil<br>Voltage<br>(Vdc) | Coil<br>Resistance<br>in Ohms<br>±10% @ 25°C<br>(Note 1) | Coil Circuit<br>Current<br>mA (Max.)<br>(Note 1&2) | Coil Circuit<br>Current<br>mA (Min.)<br>(Note 1&2) | Pickup<br>Voltage<br>Vdc (Max.)<br>@ 25°C<br>(Note 2) | Base Turn<br>On Current<br>mA (Max.)<br>@ 25°C | Pickup<br>Voltage<br>Vdc (Max.)<br>@ 125°C<br>(Note 2) | Base Turn<br>On Current<br>mA (Max.)<br>@ 125°C | Drop-Out<br>Voltage<br>Vdc (Min.)<br>@ 25°C<br>(Note 2) | Drop-Out<br>Voltage<br>Vdc (Min.)<br>@ -65°C<br>(Note 2) | Nom. Coil<br>Power<br>(mW)<br>@ 25°C | Max.<br>Coil<br>Voltage | Coil<br>Desig. |
|----------------------------------|--|--|--|---|--|--|---|---|--|--------------------------------------|-------------------------|----------------|
| MA/MAD                           |  |  |  |   |  |  |   |   |  |                                      |                         |                |
| 5.0                              | 50   | n/a  | n/a  | 2.7   | n/a  | 3.5  | n/a   | 0.22  | 0.14   | 500                                  | 5.8                     | 5              |
| 6.0                              | 98   | n/a  | n/a  | 3.5   | n/a  | 4.5  | n/a   | 0.28  | 0.18   | 367                                  | 8.0                     | 6              |
| 9.0                              | 220  | n/a  | n/a  | 5.3   | n/a  | 6.8  | n/a   | 0.54  | 0.35   | 368                                  | 12.0                    | 9              |
| 12.0                             | 390  | n/a  | n/a  | 7.0   | n/a  | 9.0  | n/a   | 0.63  | 0.41   | 369                                  | 16.0                    | 12             |
| 18.0                             | 880  | n/a  | n/a  | 10.5  | n/a  | 13.5   | n/a   | 0.91  | 0.59   | 368                                  | 24.0                    | 18             |
| 26.5                             | 1,560  | n/a  | n/a  | 14.2  | n/a  | 18.0   | n/a   | 1.37  | 0.89   | 450                                  | 32.0                    | 26             |
| 30.0                             | 2,500  | n/a  | n/a  | 17.7  | n/a  | 22.0   | n/a   | 1.50  | 1.00   | 360                                  | 36.0                    | 30             |
| MADD                             |  |  |  |   |  |  |   |   |  |                                      |                         |                |
| 5.0                              | 39   | 128.2  | 93.2   | 3.2   | n/a  | 4.0  | n/a   | 0.6   | 0.6  | 641                                  | 5.8                     | 5              |
| 6.0                              | 78   | 78.3   | 58.3   | 4.0   | n/a  | 5.0  | n/a   | 0.7   | 0.7  | 462                                  | 8.0                     | 6              |
| 9.0                              | 220  | 42.9   | 33.0   | 6.3   | n/a  | 7.8  | n/a   | 0.9   | 0.8  | 368                                  | 12.0                    | 9              |
| 12.0                             | 390  | 32.8   | 25.6   | 8.0   | n/a  | 10.0   | n/a   | 1.1   | 0.9  | 369                                  | 16.0                    | 12             |
| 18.0                             | 880  | 22.1   | 17.5   | 11.5  | n/a  | 14.5   | n/a   | 1.4   | 1.1  | 368                                  | 24.0                    | 18             |
| 26.5                             | 1,560  | 18.5   | 14.8   | 15.2  | n/a  | 19.0   | n/a   | 1.8   | 1.4  | 450                                  | 32.0                    | 26             |

Notes: 1. Coil resistance not directly measurable. Coil current should be within limits shown when tested at nominal voltage at 25°C for 5 seconds max. 2. Set base current at 3 mA to 15 mA during measurements.

#### **Ordering Instructions**

Catalog-selected Relays: The catalog number is derived by choosing the proper CODE for each of the relay characteristics in the order in which the codes are listed.

| Specifying a Part Number Example:   | <u>Type</u> | <u>Terminal</u> | <u>Diodes</u> | <u>Ground Pins</u> | <u>Coils</u> | Spreader/Mounting Pads |  |
|---|-------------|-----------------|---------------|--------------------|--------------|------------------------|--|
|   | MA          | С               | D             | G                  | -26          | S                      |  |
| * The part number example shown on this page is for catalog items. For a list of specific QPL part numbers, please see the index in Section 15. |             |                 |               |                    |              |                        |  |

Catalog 5-1773450-5 Revised 3-13

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Dimensions are in millimeters unless otherwise specified.

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**Coil Data** 

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Authorized Distributor

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TE Connectivity: J1MAC-26XM