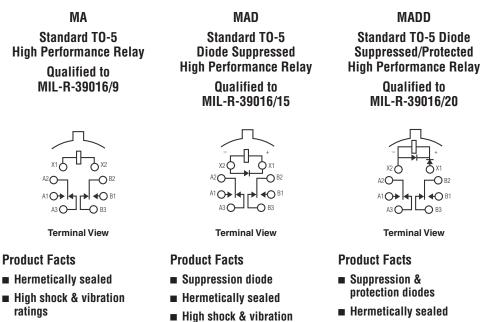


# Double Pole, Electrically Held, 1 Amp and Less





- 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

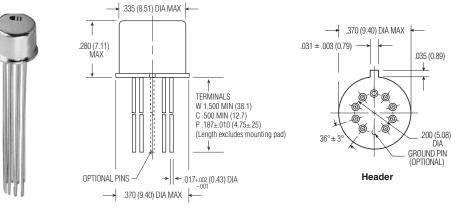
Duty Cycle — Continuous Pick-up Voltage — Approximately

50% of nominal coil voltage Pick-up Sensitivity

130 mW max. @ 25°C

# **Contact Ratings**

Contact Load	Туре	Operations 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**

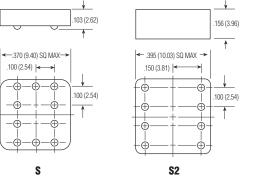
Temperature Range — -65°C to +125°C Weight -0.09 oz. (2.55 grms) 0.10 oz. (2.80 grms) with spreader pad attached Vibration Resistance —

#### 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. Coil Voltage (Vdc)	Coil Resistance in Ohms ±10% @ 25°C (Note 1)	Coil Circuit Current mA (Max.) (Note 1&2)	Coil Circuit Current mA (Min.) (Note 1&2)	Pickup Voltage Vdc (Max.) @ 25°C (Note 2)	Base Turn On Current mA (Max.) @ 25°C	Pickup Voltage Vdc (Max.) @ 125°C (Note 2)	Base Turn On Current mA (Max.) @ 125°C	Drop-Out Voltage Vdc (Min.) @ 25°C (Note 2)	Drop-Out Voltage Vdc (Min.) @ -65°C (Note 2)	Nom. Coil Power (mW) @ 25°C	Max. Coil Voltage	Coil 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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