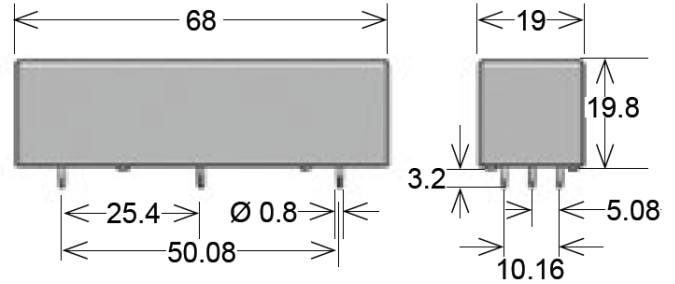
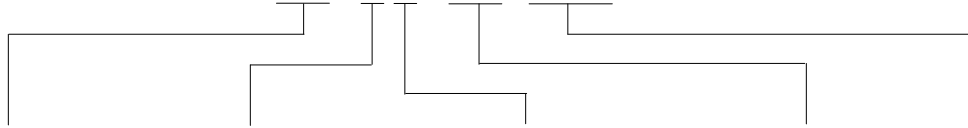


# HM Series Reed Relays



- Features: High Voltage Relay, Through-Hole / Axial Wire Option, Latching Version, Special Pin-Outs
- Applications: High Voltage Test Sets, Cable Testers, Medical Equipment & Others
- Markets: Medical, Test and Measurement & Others

Part-Description: **HM 00-0X00-000**



Nominal Voltage	Contact QTY	Contact Form	Switch Model	Pin Out
05, 12, 24	1	A, B	69, 83	02, 03, 06, 08, 26, 20-6, 150, 300

Customer Options	Switch Model		Unit
	69	83	
<b>Contact Data</b>			
<b>Rated Power (max.)</b> Any DC combination of V&A not to exceed their individual max.'s	50	50	W
<b>Switching Voltage (max.)</b> DC or peak AC	10,000	7,500	V
<b>Switching Current (max.)</b> DC or peak AC	3.0	3.0	A
<b>Carry Current (max.)</b> DC or peak AC	5.0	5.0	A
<b>Contact Resistance (max.)</b> @ 0.5V & 50mA	150	150	mOhm
<b>Breakdown Voltage (min.)</b> According to EN60255-5	15	10	kVDC
<b>Operating Time (max.)</b> Incl. Bounce; Measured with w/ Nominal Voltage	3.0	3.0	ms
<b>Release Time (max.)</b> Measured with no Coil Excitation	1.5	1.5	ms
<b>Insulation Resistance (typ.)</b> Rh<45%, 100V Test Voltage	10 <sup>12</sup>	10 <sup>12</sup>	Ohm
<b>Capacitance (typ.)</b> @ 10kHz across open Switch	1	1	pF

Coil Data		Coil Voltage (nom.)	Coil Resistance (typ.)	Pull-In Voltage (max.)	Drop-Out Voltage (min.)	Nominal Coil Power (typ.)
Contact Form	Switch Model					
Unit		VDC	Ohm	VDC	VDC	mW
1A	69	05	30	3.8	0.5	833
		12	150	9	1	960
		24	600	18	2	960
	83	05	45	3.8	0.5	556
		12	250	9	1	576
		24	1,000	18	2	576
1B	69	05	60	3.8	0.5	556
		12	150	9	1	960
		24	1,000	18	2	576
	83	05	45	3.8	0.5	556
		12	250	9	1	576
		24	1,000	18	2	576

The Pull-In / Drop-Out Voltage and Coil Resistance will change at rate of 0.4% per °C.

Environmental Data		Unit
<b>Shock Resistance (max.)</b> 1/2 sine wave duration 11ms	50	g
<b>Vibration Resistance (max.)</b>	20	g
<b>Operating Temperature</b>	-20 to 70	°C
<b>Storage Temperature</b>	-35 to 95	°C
<b>Soldering Temperature (max.)</b> 5 sec. max.	260	°C

#### Handling & Assembly Instructions

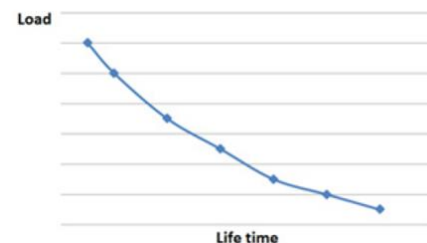
- Switching inductive and/or capacitive loads create voltage and/or current peaks, which may damage the relay. Protective circuits need to be used.
- External magnetic fields needs to be taken into consideration, including a too high packing density. This may influence the relays' electrical characteristics.
- Mechanical shock impacts e.g. dropping the relays may cause immediate or post-installation failure.
- Wave soldering: maximum 260°/5 seconds.
- Reflow soldering: Recommendations given by the soldering paste manufacturer need to be considered as well as the temperature limits of other components/processes.

#### HM Reed Relay



#### Life Test Data

\*Load increase reduces life expectancy of Reed Switches



Glossary Contact Form		
Form A	NO = Normally Open Contacts SPST = Single Pole Single Throw	
Form B	NC = Normally Closed Contacts SPST = Single Pole Single Throw	
Form C	Changeover SPDT = Single Pole Double Throw	

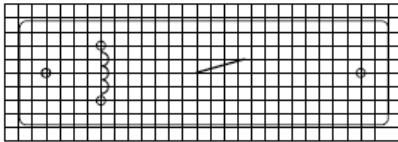


### Pin Out

Top View

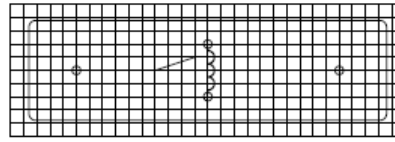
2.5mm [0.098"] pitch grid

HMxx-1Axx



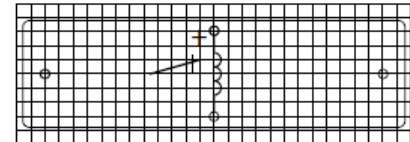
2.54mm [0.100"] pitch grid

HMxx-1Axx-02

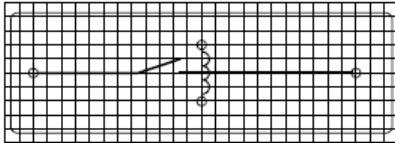


2.5mm [0.098"] pitch grid

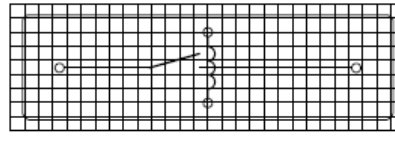
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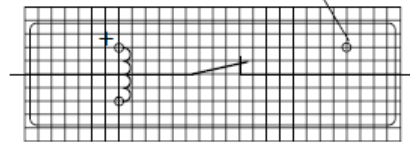
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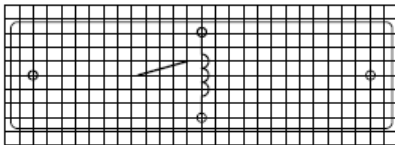
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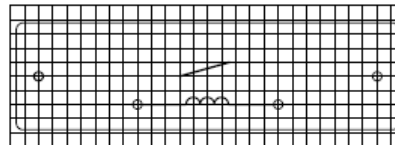
HMxx-1Bxx-105



HMxx-1Axx-06



HMxx-1Axx-08



HMxx-1Axx-150

