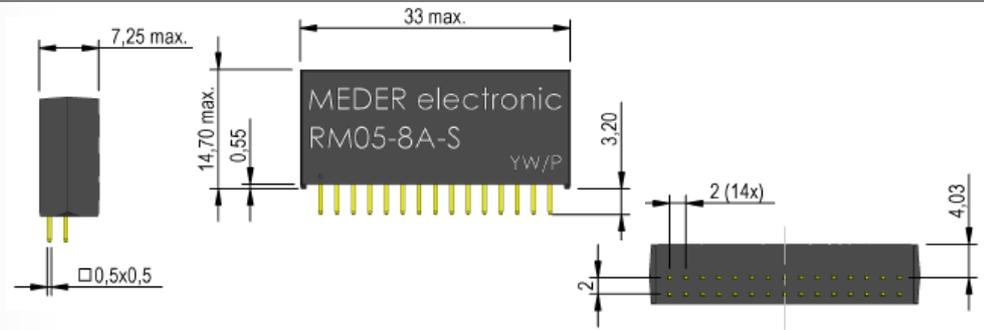# RM05-8A-S Series Reed Relays

➢ Features: 8-pole Low Profile Relay Module, Built-In 8-Channel Relay Driver MAX4823

➢ Applications: Automated Test Equipment & Others

➢ Markets: Test and Measurement & Others

Part Description: **R M 0 5 - 8 A - S**

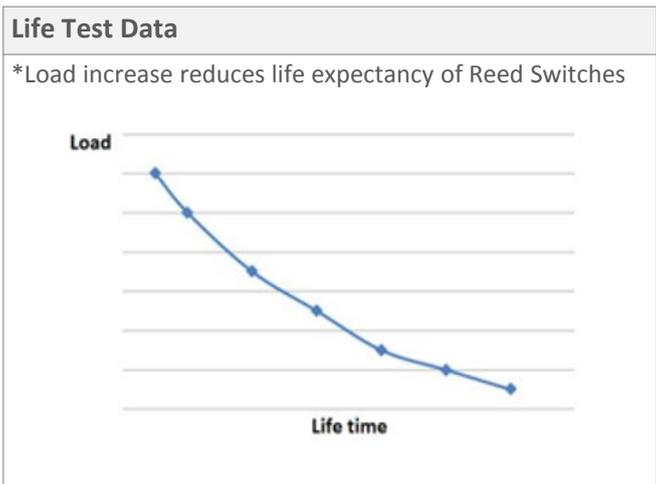| Nominal Voltage	Contact QTY	Contact Form	Bus Interface
05	8	A	Serial

Customer Options	Switch Model	Unit
Contact Data	**80**	
Rated Power (max.) Any DC combination of V&A not to exceed their individual max.'s	10	W
Switching Voltage (max.) DC or peak AC	170	V
Switching Current (max.) DC or peak AC	0.5	A
Carry Current (max.) DC or peak AC	0.5	A
Contact Resistance (max.) @ 0.5V & 50mA	150	mOhm
Breakdown Voltage (min.) According to EN60255-5	0.21	kVDC
Operating Time (max.) Incl. Bounce; Measured with w/ Nominal Voltage	0.6	ms
Release Time (max.) Measured with no Coil Excitation	0.1	ms
Insulation Resistance (typ.) Rh<45%, 100V Test Voltage	1	GOhm
Capacitance (typ.) @ 10kHz across open Switch	0.2	pF

Coil Data

Switch Model		**80**	**Unit**
Contact Form		1A	
Coil Voltage	(nom.)	5	VDC
Coil Resistance	(typ.)	500	Ω

Environmental Data

Environmental Data		Unit
Operating Temperature	-20 to 85	°C
Storage Temperature	-35 to 100	°C
Soldering Temperature (max.) 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.

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	

RM05-8A-S Reed Relay

Life Test Data

*Load increase reduces life expectancy of Reed Switches

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Modifications in the sense of technical progress are reserved.

Layout

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