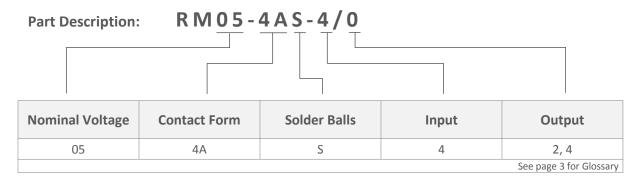


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RM05-4A Series Reed Relays



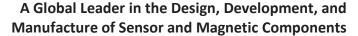
- Features: 4-Pole Low Profile SMD RF Relay Module, <40ps Rise Time for Switching Fast Pulses
- Ceramic/Thermoset Molded Package, Supplied in Tape & Reel, BGA Solder Balls
- For S-Parameters and RF Data, please contact your nearest sales office
- Applications: High Frequency Signals, Test and Measurement Systems, Telecommunications, Multiplexers



	Switch Model		
Contact Data (at 20°C)	80	Unit	
	(A-Dry)		
Contact Material	Rhodium		
Rated Power (max.)	10	W	
Any DC combination of V&A not to exceed max rated power	10	VV	
Switching Voltage (max.)	170	V	
DC or peak AC		V	
Switching Current (max.)	0.5	A	
DC or peak AC			
Carry Current (max.)	1.0	A	
DC or peak AC	1.0		
Contact Resistance (max.)	200	mOhm	
@ 0.5V & 10mA, Measured with 40% Pull-In Overdrive	200	IIIOIIIII	
Breakdown Voltage (min.)	210	VDC	
According to IEC 60255-27	210	VDC	
Operating Time (max.)	0.6	ms	
Including Bounce, Measured with 40% Pull-In Overdrive	0.0		
Release Time (max.)		ms	
Measured without Coil Suppression	0.03	ms	
Insulation Resistance (min. / typ.)	10 ⁰⁹ / 10 ¹⁰	Ohm	
Rh<45%, 100V Test Voltage	10 / 10	Ollili	
Capacitance (typ. / max.)	0.3 / 0.5	n.F.	
@ 10kHz across Open Switch	0.5 / 0.5	pF	



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Coil Da	Coil Data (at 20°C) Coil Voltage		_	Coil Resistance	Pull-In Voltage	Drop-Out Voltage	Coil Power
Contact	t Switch	(VI	OC)	(Ohm)	(VDC)	(VDC)	(mW)
Form	Model	Nominal	Maximal	Typical (± 10 %)	Maximal	Minimal	Nominal
4A	80	05	7.5	185	3.75	0.5	135

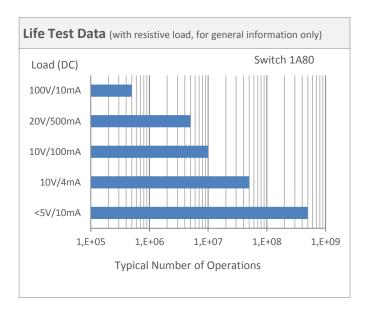
The Pull-In, Drop-Out Voltage and Coil Resistance will change at rate of 0.4% per °C

Relay Data (at 20°C)	Unit	
Contact Bulk Resistance (typ./max.) Through all plated material on substrate	260 / 440	mOhm
Dielectric Strength Coil/Contact (min.) According to IEC 60255-27	1.5	kVDC
Insulation Resistance Coil/Contact (typ./min.) Rh<45%, 200V Test Voltage	10 ¹² / 10 ¹³	Ohm
Capacitance Coil/Contact (typ./max.) @ 10 kHz with Closed Switch	0.9 / 1.1	pF
Shock Resistance (max.) 1/2 sine wave duration 11ms	50	g
Vibration Resistance (max.) 10 – 2,000 Hz	20	g
Operating Temperature (max.) Surrounding of the relay's housing	-40 to 85	°C
Storage Temperature (max.) Surrounding of the relay's housing	-55 to 125	°C
Soldering Temperature (max.) 5 seconds max.	255	°C
Washability Aqueous rinsing suitable. Proper drying necessary.	Fully Sealed	

RM05-4A Reed Relay Dimensions (in mm [inch]) Tolerances acc. to ISO 2768-m BGA 11,20 [0,441] Max. Post Reflow Height (BGA only)

Handing & Assembly Instructions

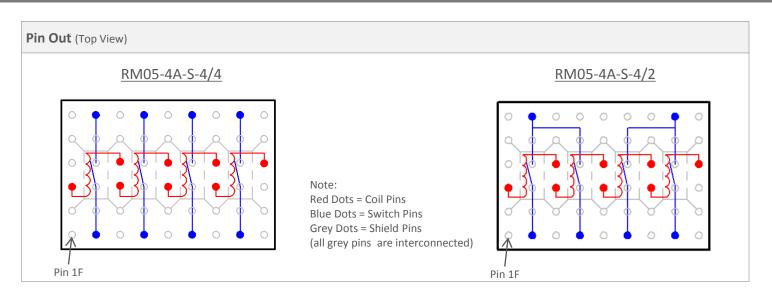
- Switching inductive and/or capacitive loads create voltage and/or current peaks, which may damage the relay. Protective circuits need to be used - see our website.
- External magnetic fields and magnetic effects, due to adjacent relays in high density matrices that may influence the relays' electrical characteristics, must be taken into consideration.
- Mechanical shock impacts, e.g. dropping the relays, may cause immediate or post-installation failure.
- Suppressing coil diode can have a negative influence on total number of switching cycles
- Reflow soldering: See the page 4. Recommendations given by the soldering paste manufacturer need to be considered as well as the temperature limits of other components/processes.

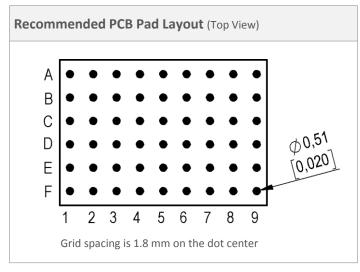


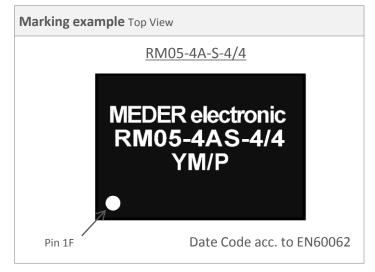




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Glossary Contact Form		
Form A	NO = Normally Open Contact SPST = Single Pole Single Throw	
Form B	NC = Normally Closed Contacts SPST = Single Pole Single Throw	
Form C	Changeover SPDT = Single Pole Double Throw	
Form E	Latching unchanged until an opposite impulse is present	
RM Relays are available only in "Form 4A" configuration		

Glossary Option	
RM Basic	with Coaxial & Magnetic Shield, without Diode
L	Standard
D	with Diode
М	with Magnetic Shield, without Diode
Q	with Diode and Magnetic Shield
HR	High Resistance Coil
RM Relays are available only with "Basic" Option	

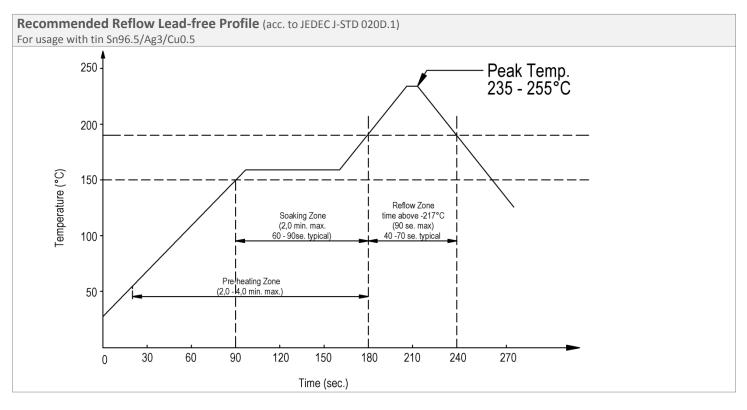


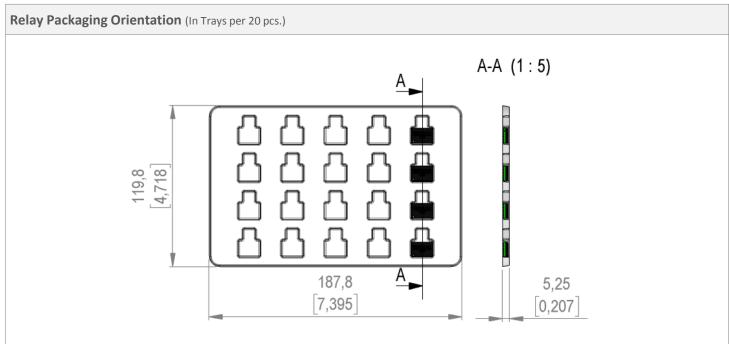






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Please note: All technical specifications on this series datasheet refer to the standard product range. Modifications in the sense of technical progress are reserved. For general information only. For more specific information, please consult the product datasheet, available upon request.

This series datasheet could contain technical inaccuracies or typographical errors. Changes are periodically made to the information herein. These changes will be incorporated in future revisions.

For deviating values, latest specifications and product details, please contact your nearest sales office.

