

CRR Series Reed Relays



- Features: Ultraminiature, SMD, High Insulation Resistance up to 10 TOhm
- Ceramic/Thermoset Molded Package, Supplied in Tape&Reel, UL listed, BGA option
- Applications: Test and Measurement Systems, Telecommunications, Medical applications

Part Description: **CRR 00-XX0 (250)**

Nominal Voltage	Contact Form	Options	Packaging
03, 05	1A, 1B	S (Soldering Ball Option)	1000 standard or 250 pcs

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	1.0	A
Contact Resistance (max.) @ 0.5V & 50mA	200	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	0.05	ms
Insulation Resistance (typ.) Rh<45%, 100V Test Voltage	10	GOhm
Capacitance (typ.) @ 10kHz across open Switch	0.4	pF

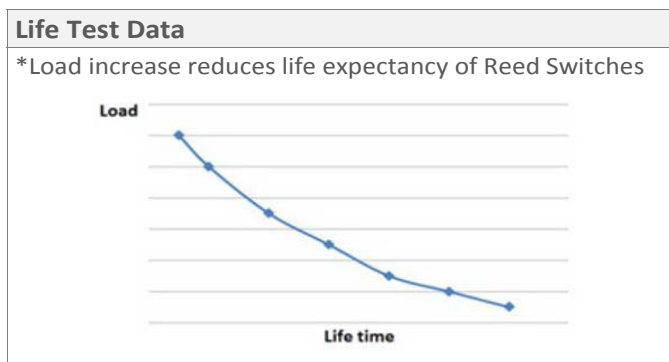
Coil Data						
Contact Form	1A		1B		Unit	
	80					
Coil Voltage (typ.)	03	05	03	05	VDC	
Coil Resistance (typ.)	70	150	70	130	Ω	
Pull-In Voltage (max.)	2.25	3.5	2.25	3.75	VDC	
Drop-Out Voltage (min.)	0.45	0.75	0.45	0.75	VDC	
Rated Coil Power (typ.)	129	167	129	192	mW	

All Data at 20°C

Relay Data		Unit
Dielectric Strength Coil/Contact (min.) according to EN60255-5	1.5	kVDC
Insulation Resistance Coil/Contact (min.) Rh<45%, 200V Test Voltage	10 ¹³	Ohm
Shock Resistance (max.) 1/2 sine wave duration 11ms	50	g
Vibration Resistance (max.)	20	g
Operating Temperature	-40 to 125	°C
Storage Temperature	-55 to 125	°C
Soldering Temperature (max.) 5 sec. max.	260	°C
Washability	fully sealed	



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.
➤	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.

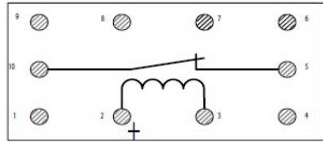


Glossary		
Form A	NO = Normally Open Contacts SPST = Single Pole Single Throw	
Form B	NC = Normally Closed Contacts SPST = Single Pole Single Throw	
Form C	Changeover SPDT = Single Pole Double Throw	

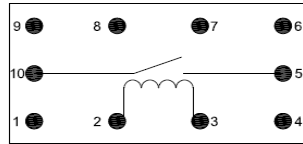


Pin Out

Top View



1B



1A

Pad / PCB Layout

Bottom View

