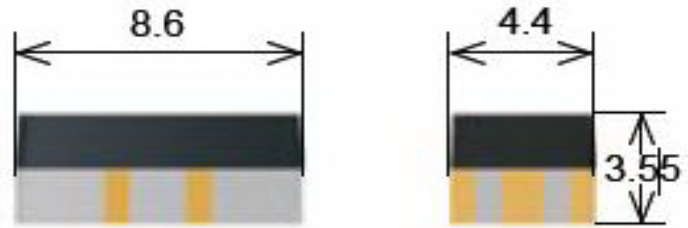


CRR Series Reed Relays



- Features: Ultraminiature, SMD, High Insulation Resistance up to 10 TΩ
- 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	mΩ
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	GΩ
Capacitance (typ.) @ 10kHz across open Switch	0.4	pF

Coil Data						
Contact Form	1A		1B		Unit	
Switch Model	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	

CRR Reed Relay

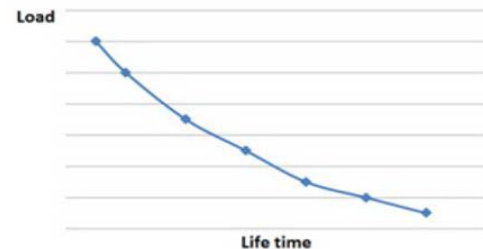


Handing & Assembly Instructions

- 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 need 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.

Life Test Data

*Load increase reduces life expectancy of Reed Switches



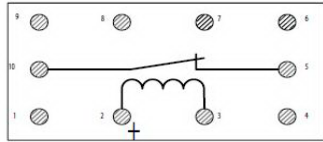
Glossary

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	

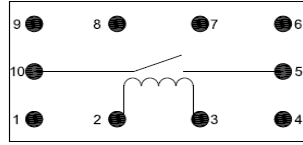


Pin Out

Top View



1B



1A

Pad / PCB Layout

Bottom View

