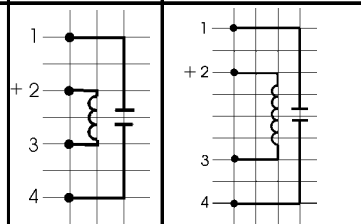


9000 Series/Spartan SIP Reed Relays



Model Number	Test Conditions	Units	9007 ²		9081 ²		
Parameters					.24.2 SIP		
COIL SPECS.							
Nom. Coil Voltage		VDC	5	12	5	12	24
Max. Coil Voltage		VDC	6.5	15.0	6.5	15.0	32
Coil Resistance	+/- 10%, 25° C	Ω	500	1000	500	1000	2000
Operate Voltage	Must Operate by	VDC - Max.	3.75	9.1	3.75	9.1	18
Release Voltage	Must Release by	VDC - Min.	0.4	1.0	0.4	1.0	2
CONTACT RATINGS							
Switching Voltage	Max DC/Peak AC Resist.	Volts	200		200		
Switching Current	Max DC/Peak AC Resist.	Amps	0.5		0.5		
Carry Current	Max DC/Peak AC Resist.	Amps	1.0		1.0		
Contact Rating	Max DC/Peak AC Resist.	Watts	10		10		
Life Expectancy-Typical ¹	Signal Level 1.0V, 1.0mA	x 10 ⁶ Ops.	100		100		
Static Contact Resistance (max. init.)	50mV, 10mA	Ω	0.200		0.200		
Dynamic Contact Resistance (max. init.)	0.5V, 50mA at 100 Hz, 1.5 msec	Ω	N/A		N/A		
RELAY SPECIFICATIONS							
Insulation Resistance (minimum)	Between all Isolated Pins at 100V, 25°C, 40% RH	Ω	10 ¹⁰		10 ¹⁰		
Capacitance - Typical Across Open Contacts	No Shield	pF	0.7		0.7		
	Shield Floating	pF	-		-		
	Shield Guarding	pF	-		-		
Open Contact to Coil	No Shield	pF	1.4		1.4		
	Shield Floating	pF	-		-		
	Shield Guarding	pF	-		-		
Contact to Shield	Contacts Open, Shield Floating	pF	-		-		
Dielectric Strength (minimum)	Between Contacts	VDC/peak AC	250		250		
	Contacts to Shield	VDC/peak AC	-		-		
	Contacts/Shield to Coil	VDC/peak AC	1500		1500		
Operate Time - including bounce - Typical	At Nominal Coil Voltage, 30 Hz Square Wave	msec.	0.50		0.50		
Release Time - Typical	Zener-Diode Suppression ⁴ Diode Suppression	msec.	0.20		0.20		
			-		-		



Top View:
Dot stamped on relay refers to pin #1
Grid = .1"x.1"
(2.54mm x 2.54mm)

Notes:

- ¹ Consult factory for life expectancy at other switching loads.
- ² Optional diode is connected to pin #2 (+) and pin #3(-). Correct coil polarity must be observed.
- ³ These relays contain bias magnets. Correct coil polarity must be observed. Pin #2(+)
- ⁴ Consists of 20V Zener-diode and 1N1002 diode in series, connected in parallel with coil.

Environmental Ratings

Storage Temp: -35°C to +100°C; Operating Temp: -20°C to +85°C
Solder Temp: 270°C max; 10 sec. max
The operate and release voltage and the coil resistance are specified at 25°C. These values vary by approximately 0.4%/°C as the ambient temperature varies.
Vibration: 20 G's to 2000 Hz; Shock: 50 G's