

C Series Reed Relays

High Density Surface Mount

Development philosophy with inherited reliability and assembly capacity of C Series was put into succession of the M Series small form factor reed relay. C Series is a 1 Form A with excellent shielding and 7GHz RF performance



Compared with the M series, the mounting area for this series achieved 30% shrinkage with the same great reliability. The C Series has a long product life that is widely accepted by the ATE, telecommunications and wireless communications markets.

		CG-E103	CG-E105	Test Conditions			
Parameters	Units	CJ-E103	CJ-E105				
Coil Specifications		1 Form A		Test Conditions			
Nominal Coil Voltage	VDC	3.3	5.0	±10% @ 20°C @ 20°C @ 20°C			
Coil Resistance	Ω	100	200				
Operate Voltage	VDC Max	2.8	3.75				
Release Voltage	VDC Min	0.5	0.7				
Contact Ratings							
Switching Voltage	Volts	100	Max DC/Peak AC resistance				
Switching Current	Amps	0.5	Max DC/Peak AC resistance				
Carry Current	Amps	1.0	Max DC/Peak AC resistance(@30°C)				
Contact Rating	Watts	10	Max DC/Peak AC resistance				
Life Expectancy	x10 ⁶ Cycle	300	@ 1V 10mA				
Contact Resistance	mΩ	150	Max initial @ operate voltage				
Contact Resistance Stability	mΩ	5.0	Max initial @ operate voltage				
Relay Specifications							
Insulation Resistance	Ω Min	10 ¹¹	Between all isolated pins @ 100V 20°C 65%RH				
Dielectric Strength (Static)	VDC Min	200	Between contacts				
	VDC Min	250	Contacts to shield				
	VDC Min	250	Contacts to coil				
	VDC Min	250	Shield to coil				
Operate Time (Including Bounce)	msec Max	0.3	@ nominal coil voltage				
Release Time	msec Max	0.05	100 Hz square wave				
		Diode suppression					
Measurement Reference Conditions		Environmental Ratings					
Temp: 15°C to 35°C Humidity: 25% to 75%RH Atmospheric Pressure: 860 to 1060hpa		Storage temp: -40°C to +85°C Operate temp: -20°C to +80°C Vibration: 20G's to 2000Hz Shock: 50G's Processing temp: 260°C max for 60sec. dwell time					

RoHS