

# 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	
		CJ-E103	CJ-E105	
Parameters	Units	1 Form A		Test Conditions
Coil Specifications				
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 <sup>6</sup> 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 <sup>11</sup>	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 100 Hz square wave	
Release Time	msec Max	0.05	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