

CHZ01 Series 10A MINIATURE POWER RELAY



FEATURES

- Outline dimension (29.2mm×12.8mm×20.9mm)
- 1 Form A (SPST) or 1 Form C (SPDT) contact arrangement
- Designed to meet cULus, TUV, CQC requirements
- 5,000VAC dielectric strength between coil and contact
- Sensitive and standard coils available
- Class F type
- RoHS compliance
- REACH SVHC compliance
- Halogen-Free type available Glow
- Glow wire type

APPLICATION

Appliances, Power Supplier, Industrial Control

COIL PARAMETER

Coil voltage	5-48VDC	
Coil power	Sensitive	540mW
	Standard	720mW

COIL DATA @23°C

CHZ-LA2/LC2(540mW), Sensitive				
Nominal coil voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω) ± 10%	Operate Voltage (VDC Max.)	Release Voltage (VDC Min.)
5	103.1	48.5	3.75	0.25
6	88.2	68	4.50	0.30
9	58.1	155	6.75	0.45
12	44.4	270	9.00	0.6
18	30.0	600	13.50	0.90
24	21.8	1,100	18.00	1.20
48	10.9	4,400	36.00	2.40

CHZ-DA2/DC2(720mW), Standard				
Nominal coil voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω) ± 10%	Operate Voltage (VDC Max.)	Release Voltage (VDC Min.)
5	138.9	36	3.75	0.25
6	123.7	48.5	4.50	0.30
9	78.3	115	6.75	0.45
12	60.0	200	9.00	0.6
18	40.0	450	13.50	0.90
24	29.3	820	18.00	1.20
48	14.5	3,300	36.00	2.40



File NO. E341422



File NO. R50174892



File NO. CQC10002043606

CONTACT DATA

Contact arrangement	1 Form A (SPST) / 1 Form C (SPDT)
Contact material	Ag Alloy
Initial contact resistance	100mΩ max. @6VDC, 1A
Max. switching voltage	250VAC/30V DC
Max. switching current	10A
Max. switching power	2500VA/300W
Contact rating (Resistive Load)	10A(N.O.)/5A(N.C.)250VAC
	10A(N.O.)/5A(N.C.)30VDC
Mechanical endurance	10,000,000 ops Min. (no load)
Electrical endurance	100,000 ops Min. (rated load)
Minimum load (reference value)	100mA @5VDC

CHARACTERISTICS

Operate voltage	75% of nominal voltage or less	
Release voltage	5% of nominal voltage or more	
Operate time (At nominal voltage)	20ms max.	
Release time (At nominal voltage)	8ms max.	
Insulation resistance	1,000 MΩ min. (at 500 VDC)	
Dielectric strength	Between coil and contact	5,000 VAC, 50/60 Hz for 1 min
	Between open contacts	1,000 VAC, 50/60 Hz for 1 min
Surge voltage between coil and contacts	10,000V(1.2/50μs)	
Vibration resistance	Destruction	10 to 55 Hz, 1.5mm double amplitude
	Malfunction	10 to 55 Hz, 1.5mm double amplitude
Shock resistance	Destruction	1,000 m/s ² (100G approximately)
	Malfunction	100 m/s ² (10G approximately)
Ambient temperature	Operating: -40 ~ +85 °C (without icing or condensation)	
Ambient humidity	Operating: 20% to 85% RH	
Terminal	PCB terminals	
Enclosure (94V-0 Flammability Ratings)	V: Vented (Flux-tight, RTII)	
	S: Sealed (Wash-tight, RTIII)	
Weight	Approx. 13g	

[Http://www.churod.com](http://www.churod.com)

2020 Rev.00 Churod Electronics Co., Ltd.



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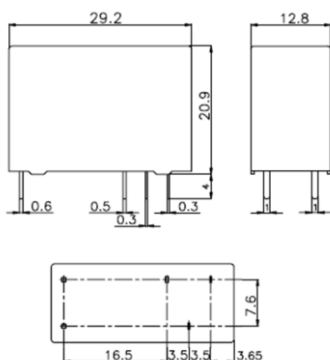


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ORDERING INFORMATION

	CHZ01	-V	-1	12	H	A	2	F	,000
1.Product Family									
2.Enclosure									
V=Vented(Flux-tight, RTII) S=Sealed(Wash-tight, RTIII)									
3.Number of Poles									
1=1 pole									
4.Rated Coil Voltage									
05,06,09,12,18,24,48VDC									
5.Coil Power									
D = Standard(720mW) L = Sensitive(540mW)									
6.Contact Arrangement									
A = Form A(DPST) C = Form A(DPDT)									
7.Contact Material									
无 & 2=AgSnO ₂									
8.Insulation System									
Blank & F = Class(155℃)									
9.Additional numbers and/or letters									
000-999, AAA-ZZZ, aaa-zzz or blank, which does not represent electrical changes, only for specific customer requirements									

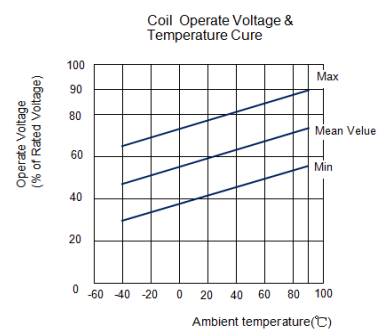
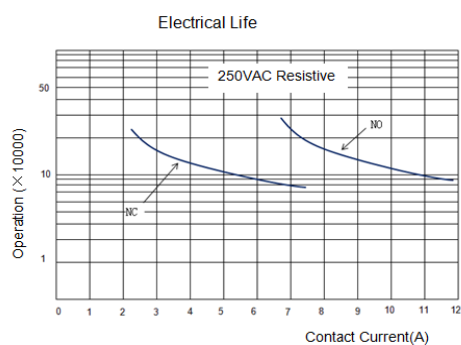
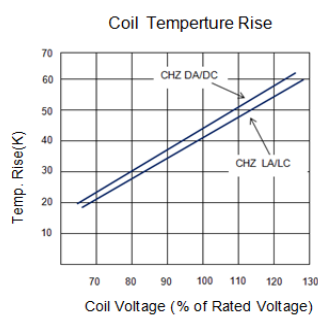
OUTLINE DIMENSION



Remarks:

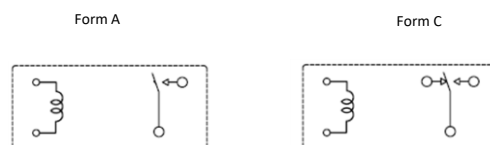
- 1)The reference tolerance in outline dimen
outline dimension $\leq 1\text{mm}$, reference tolerance is $\pm$
outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$, reference tolerance
outline dimension $> 5\text{mm}$, reference tolerance is $\pm$
- 2)The reference tolerance for PC Board layout is ± 1

Reference Date



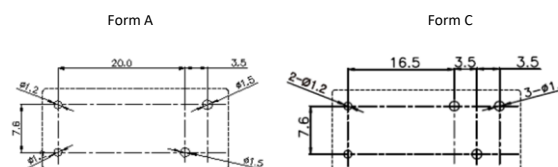
WIRING DIAGRAMS (BOTTOM VIEWS)

Unit:mm



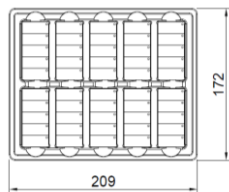
PC BOARD LAYOUTS (BOTTOM VIEWS)

Unit:mm



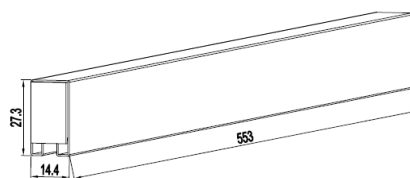
Packaging Figure

1.BOX



100 pcs inside a box
1000pcs inside a carton

2.TUBE



18 pcs inside a tube
1000 pcs inside a carton

Disclaimer:

The specification is for reference only, if you need more detail information, please contact Churod. We could not evaluate all the performance and all parameters for every possible application. And the user should be in a right position to choose the suitable product for their own application. If there is any new need, please contact Churod for the technical service.

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