

TITLE
SPECIFICATIONS

- High rating : 16A
- High sensitive : 200mW
- PCB & QC layouts available
- Wash tight and flux proofed type
 (with vent-hole cover) available



1. TYPE: CQ RELAY (P/C Board type & Quick connection)

2. COIL

1) 1 form C

NORMINAL VOLTAGE (VDC)	PICK-UP VOLTAGE (VDC)	DROP-OUT VOLTAGE (VDC)	MAX-ALLOWABLE VOLTAGE (VDC) 20℃	COIL RESISTANCE (Ω) 20℃	POWER CONSUMPTION (mW)
5	4.0	0.5	6.5	62.5 x (1±10%)	400
6	4.8	0.6	7.8	90 x (1±10%)	
9	7.2	0.9	11.7	202.5 x (1±10%)	
12	9.6	1.2	15.6	360 x (1±10%)	
18	14.4	1.8	23.4	810 x (1±10%)	
24	19.2	2.4	31.2	1440 x (1±10%)	
48	38.4	4.8	62.4	5760 x (1±10%)	

At 23℃

2) 1 form A

NORMINAL VOLTAGE (VDC)	PICK-UP VOLTAGE (VDC)	DROP-OUT VOLTAGE (VDC)	MAX-ALLOWABLE VOLTAGE (VDC) 20℃	COIL RESISTANCE (Ω) 20℃	POWER CONSUMPTION (mW)
5	4.0	0.5	7.5	125 x (1±10%)	200
6	4.8	0.6	9	180 x (1±10%)	
9	7.2	0.9	13.5	405 x (1±10%)	
12	9.6	1.2	18	720 x (1±10%)	
18	14.4	1.8	27	1620 x (1±10%)	
24	19.2	2.4	36	2880 x (1±10%)	
48	38.4	4.8	72	11520 x (1±10%)	

At 23℃



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3. CONTACTS

A) Contact arrangement : 1 form C

A-1) Contact ratings (Resistive load) :

NO : 10A 125/250VAC

NC : 6A 125/250VAC

A-2) Max. switching voltage : 250VAC

A-3) Max. switching current :

NO : 10A, NC: 6A

A-4) Max. switching power :

NO : 2500VA, NC : 1500VA

B) Contact arrangement : 1 form A

B-1) Contact ratings (Resistive load) :

“H” Type : 10A 30VDC, 10A 125/250VAC

“E” Type : 10A 30VDC, 16A 125/250VAC,
8A 250VAC (cos ϕ =0.4)

B-2) Max. switching voltage : 250VAC/30VDC

B-3) Max. switching current : 16A

B-4) Max. switching power : 4000VA/300W

C) Contact Material : AgSnO₂

D) Contact resistance : 100m Ω at 1A 6VDC

4. CHARACTERISTICS

4-1) Operate time (at nomi. volt.) : Max. 10msec

4-2) Release time (at nomi volt.) : Max. 5msec

4-3) Insulation resistance : Min. 1000M Ω (at 500VDC)

4-4) Dielectric strength

⊙ Between open contacts : AC 1000 Volt / one minute

⊙ Between coil and contacts : AC 2,500Volt / one minute

4-5) Vibration resistance : 10 to 55Hz 1.5mm DA

4-6) Shock resistance :

Functional : 100m/s² (10g)

Destructive : 1000m/s² (100g)



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- 4-7) Ambient temperature : -40 to + 85℃
- 4-8) Humidity : 35 to 85% RH
- 4-9) Termination :
1C: PCB, 1A: PCB & QC
- 4-10) Life expectancy
 - ⊙ Mechanical : Min. 10,000,000 operations (300operations/minute)
 - ⊙ Electrical : Min. 100,000 operations (at 30 operations/minute)
- 4-11) Weight : Approx. 8g
- 4-12) Outline dimension (L x W x H) : 20.0 x 16.5 x 10.5mm
- 4-13) Safety standard : cUL, TUV

5. ORDERING INFORMATION

EX.) CQ 1 - H 12 S

Contact arrangement	Contact Current	Coil voltage	Termination
1 : SPDT (1C) 11 : SPST (1A)	E : 16A (SPST) H : 10A	5, 6, 9, 12, 18, 24, 48 VDC	S : PCB Q : PCB & quick connection (only for 1 form A & 16A)

TO:	DATE:
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DEVELOPMENT DEPT.	APPROVED BY:



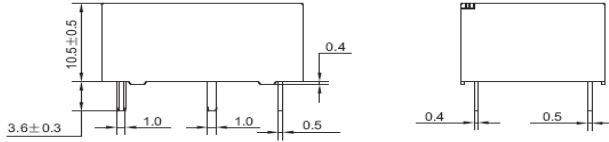
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DIMENSIONS

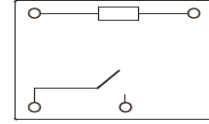
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1 Form A (PCB)

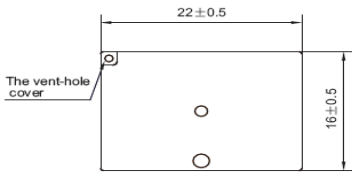
Outline Dimensions



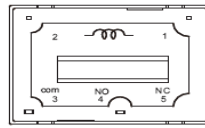
Wiring Diagram



(Bottom View)

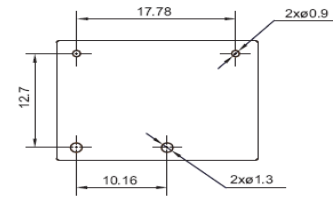


(Top view)



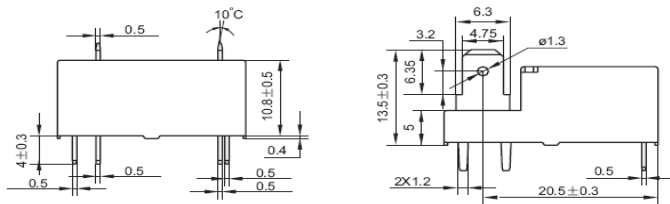
(Bottom View)

PCB Layout

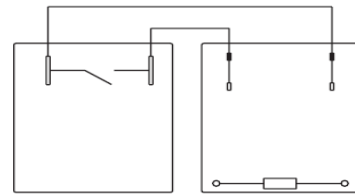


1 Form A (QC)

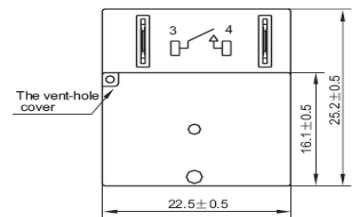
Outline Dimensions



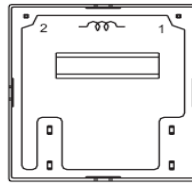
Wiring Diagram



(Bottom View)

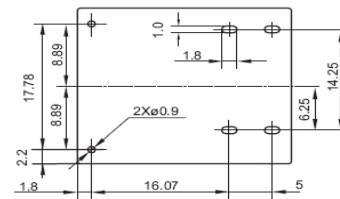


(Top view)



(Bottom View)

PCB Layout





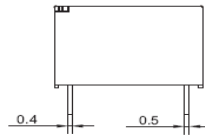
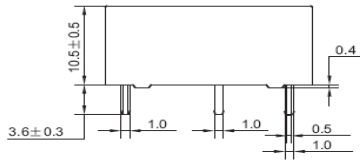
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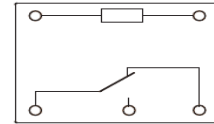
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1 Form C (PCB)

Outline Dimensions

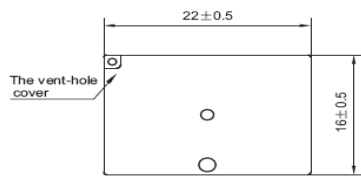


Wiring Diagram

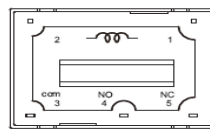


(Bottom View)

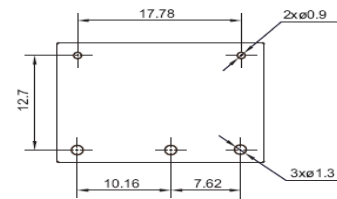
PCB Layout



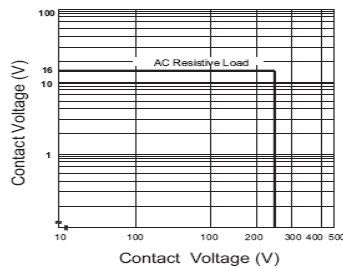
(Top view)



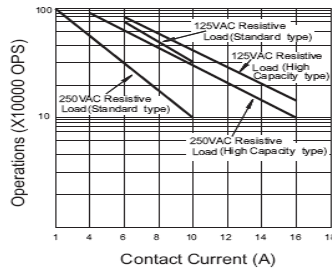
(Bottom View)



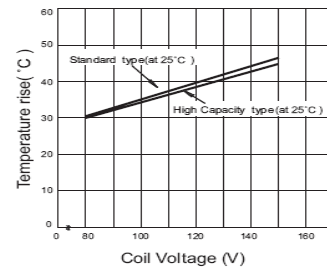
MAXIMUM SWITCHING POWER



LIFE CURVE



COIL TEMPERATURE RISE



**** Disclaimer ****

This data sheet is for the customer's reference. All the specifications are subject to change without notice. We could not evaluate all the performance and all parameters for every possible application. Thus the user should be in right position to choose the suitable product for own application. If there is any query, please contact to Texcell Netcom Co., Ltd. for the technical service. However, it is the user's responsibility to determine which product should be used only.

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