CHSM Series

2A SIGNAL RELAY

FEATURES

- Outline dimension (20.2mm×10.0mm×11.0mm)
- Switching current 2A
- 2 Form C Contact arrangement
- TH Terminal
- non-latching 1 coil

APPLICATION

Office and business equpment, measurement and control equipment,consumer electronics,set-top boxes,HiFi, medical equipment,automotive equipment

COIL PARAMETER

Coil voltage	3-24VDC	
Coil power	Sensitive	360mW
	Standard	450mW
	Low Power	200mW

COIL DATA @23℃

CHSM-D(450mW,Standard)

Nominal coil voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω)±10%	Operate Voltage (VDC Max.)	Release Voltage (VDC Min.)
5	89.2	56.0	3.75	0.50
6	75.0	80.0	4.50	0.60
12	37.5	320.0	9.00	1.20
24	18.75	1280.0	18.00	2.40

CHSM-L(360mW,Sensitive)

Nominal coil voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω)±10%	Operate Voltage (VDC Max.)	Release Voltage (VDC Min.)
5	72.4	69	3.75	0.50
6	60.0	100	4.50	0.60
9	40.0	225	6.75	0.90
12	30.0	400	9.00	1.20
24	7.5	1600	18.00	2.40

CHSM-L1(200mW,Low Power)

Nominal coil voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω)±10%	Operate Voltage (VDC Max.)	Release Voltage (VDC Min.)
3	66.6	45	2.25	0.3
5	40.0	125	3.75	0.5
6	33.3	180	4.50	0.6
9	22.2	405	6.75	0.9
12	16.6	720	9.00	1.2
24	8.3	2880	18.00	2.4

CONTACT DATA

Contact arrangement	2 Form C
Contact material	Gold-plated AgNi
Initial contact resistance	50mΩ max.@6VDC,10mA
Max. switching voltage	220VA/250VAC
Min. switching voltage	100 u V
Contact rating(Resistive Load)	2A 30VDC,0.24A 220VDC
	1A 125VAC,0.54A 250VDC
Mechanical endurance	10,000,000 ops Min.(no load)
Electrical endurance	100,000 ops Min.(rated load)
Minimum load	10mA@20mV

CHARACTERISTICS

Operate time (At nominal voltage)		10ms max.
Release time(At nominal voltage)		5ms max.
Insulation resistance		1,000 MΩ min. (at 500 VDC)
Dielectric strength	Between coil and contacts	500VAC, 50/60 Hz for 1 min(＜1mA)
	Between open contacts	1000VAC, 50/60 Hz for 1 min(＜1mA)
Vibration resistance(functional)		10G,10 to 500 Hz
Shock resistance(destructive)		20G approximately
Ambient temperature		Operating: -40~+85℃
Terminal		PCB terminals
Enclosure (94V-0 Flammability Ratings)		S: Sealed(Wash-tight, RTIII)
Weight		Approx. 5g

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ORDERING INFORMATION

CHSM -S -2 12 L C 3 '000

1. Product Family

2. Enclosure

S=Sealed(Wash-tight, RTIII)

3. Number of Poles

2=2 pole

4. Rated Coil Voltage

05=5VDC 06=6VDC 09=9VDC 12=12VDC 24=24VDC

5. Coil Power

D = Standard coil(450mW) L=Sensitive coil(360mW) L1=Low power coil(200mW)

6. Contact Arrangement

C = Form C

7. Conact Arrangement

3 = AgNi with gold plating

8. Additional numbers and /or letters

000-999，AAA-ZZZ，aaa-zzz or blank，which does not represent electrical changes, only for specific customer requirements

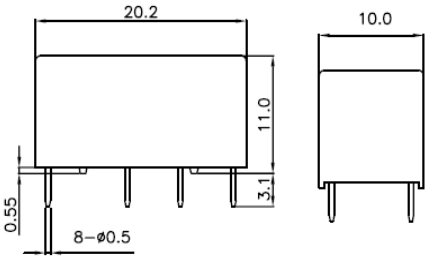
Typical products

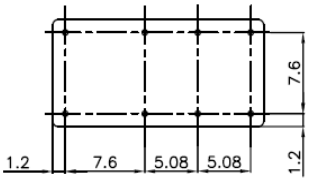
Product Description		Characteristic							
Product Name	Code	Coil Rated voltage	Contact material	Contact Load	Electrical endurance	Safety certification	Glow	Anti-explosio	Special Feature
CHSM-S-2**DC3	000	5V、6V、9V、12V、24V	AgNi	1A@125VAC	100000ops.min				
CHSM-S-2**LC3	000								
CHSM-S-2**L1C3	000								

Remarks：Special ordering for other requirements

OUTLINE DIMENSION

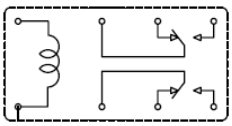
Unit:mm





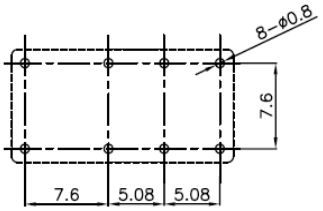
WIRING DIAGRAMS (BOTTOM VIEWS)

Unit:mm



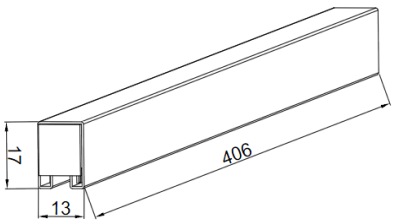
PC BOARD LAYOUTS (BOTTOM VIEWS)

Unit:mm



Remark: 1)The reference tolerance in outline dimension:
outline dimension ≤1mm, reference tolerance is ±0.2mm;
outline dimension >1mm and ≤5mm, reference tolerance is ±0.3mm;
outline dimension >5mm, reference tolerance is ±0.5mm.
2)The reference tolerance for PC Board layout is ±0.1mm.

Packaging Figure



25 pcs inside a tube
875 pcs inside a carton

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