CHMR Reed Relays

FEATURES

- Outline dimension (30.2mm×10.2mm×10mm)
- 1 Form A (SPST) contact arrangement
- Dielectric strength Between open contacts:3.5kV DC
- PCB terminals type:THT type
- RoHS compliance

APPLICATION

Automotive, Battery Management Systems, Photovoltaic Inverters, Isolation Measurement...etc

COIL PARAMETER

Coil voltage	3-24VDC	
Coil power	Standard ver.	313mW

COIL DATA @23℃

CHMR Standard				
Nominal coil voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω±10%)	Operate Voltage (VDC)	Release Voltage (VDC)
3	104.3	29	2.1	0.3
5	62.5	80	3.5	0.5
12	25.3	475	8.4	1.2
24	12.9	1858	16.8	2.4

Note:

1) The data shown above are initial values.

CONTACT DATA

Contact arrangement	1 Form A (SPST)
Contact material	Ag Alloy
Initial contact resistance	150mΩ max.(at 6VDC,10mA)
Max. switching voltage	1,000VDC
Max. switching current	1A
Max. switching power	100W
Contact rating	15mA 1,000VDC (Res.)
Electrical endurance (Resistive Load)	15mA 1,000VDC, 50,000ops (Res.)
Mechanical endurance	1,000,000 ops Min.(no load)

CHARACTERISTICS

Operate voltage		70% of nominal voltage or less
Release voltage		10% of nominal voltage or more
Operate time (At nominal voltage)		1.5ms max.
Release time(At nominal voltage)		0.5ms max.
Insulation resistance		10,000 MΩ min. (RH＜45% , at 100 VDC)
Dielectric strength	Between coil and contacts	7,000 VDC, 1 min
	Between open contacts	3,500 VDC, 1 min
Surge voltage	Between coil and contacts	8,000VDC (1.2/50μs)
	Between open contacts	8,000VDC (1.2/50μs)
Vibration resistance		10 to 55 Hz.,20G
Shock resistance		300m/S^2(30G approximately)
Ambient temperature		-40~+105℃ (without icing or condensation)
Ambient humidity		20%~85% RH
Termination		THT PCB terminals
Enclosure(94V-0 Flammability Ratings)		Sealed(Wash-tight, RTIII)

ORDERING INFORMATION

	CHMR	-1	05	A	-THT	,000

1. Product Family

CHMR

2. Number of Poles

1=1 pole

3. Rated Coil Voltage

03,05,12,24VDC

4. Contact Arrangement

A = Form A(SPST)

5. Termination

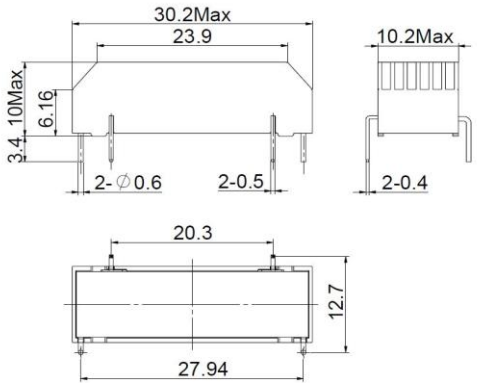
THT = PCB THT

6. Additional numbers and /or letters

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

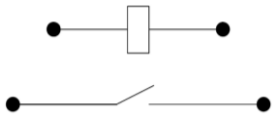
OUTLINE DIMENSION

THT type



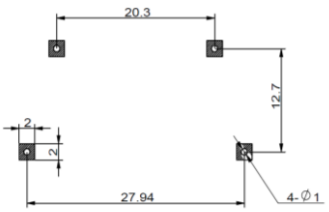
WIRING DIAGRAMS (BOTTOM VIEWS)

THT type



PC BOARD LAYOUTS (BOTTOM VIEWS)

THT type



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.