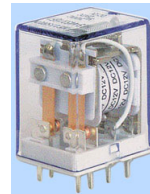




CQC03001007773



## ORDERING CODE

HLS-4453(18F) - DC12V - 2C - P - L

NIL.....STANDARD

L .....LED

T .....TEST BUTTON

A .....LED + TEST BUTTON

TERMINAL TYPE

NIL.....PLUG IN P....PBC

CONTACT FORM

2C:2FORM C

NOMINAL VOLTAGE

DC5V,DC6V,DC12V,DC24VDC48V

AC6V,AC12V,AC24V,AC48V,AC120V,AC240V

TYPE

## CONTACT DATA

|                            |                   |                        |
|----------------------------|-------------------|------------------------|
| Contact Form               | 2C                |                        |
| Contact Material           | Ag Alloy          |                        |
| Contact Ratings            | 5A 240VAC/30VDC   |                        |
| Max Switching Voltage      | 250VAC/30VDC      |                        |
| Max Switching Current      | 7A                |                        |
| Max Switching Power        | 1750VA/210W       |                        |
| Initial Contact Resistance | 100m $\Omega$ Max | at 6VDC 1A             |
| Life Expectancy Electrical | 100,000           | Operations(rated load) |
| Life Expectancy Mechanical | 10,000,000        | Operations(no load)    |

## GENERAL DATA

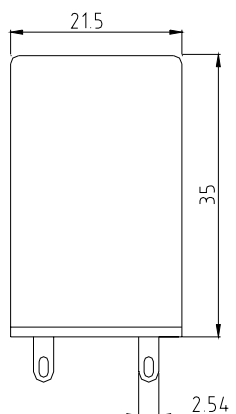
|                                               |             |                                 |
|-----------------------------------------------|-------------|---------------------------------|
| Insulation Resistance                         |             | 100M $\Omega$ min at500VDC      |
| Dielectric Strength Between Open Contacts     |             | 1000VAC 50-60HZ (1 minute)      |
| Dielectric Strength Between Contacts And Coil |             | 1500VAC 50-60HZ (1 minute)      |
| Operate Time                                  |             | 25ms max                        |
| Release Time                                  |             | 25ms max                        |
| Ambient Temperature                           |             | -40°C to +70°C                  |
| Shock Resistance                              | Malfunction | 20G                             |
|                                               | Destruction | 100G                            |
| Vibration Resistance                          |             | 10-55Hz, 1.5mm double amplitude |
| Ambient humidity                              |             | 40-85% RH                       |
| Weight                                        |             | Approx 32g                      |
| Safety Standard                               |             | CQC                             |

## COIL DATA

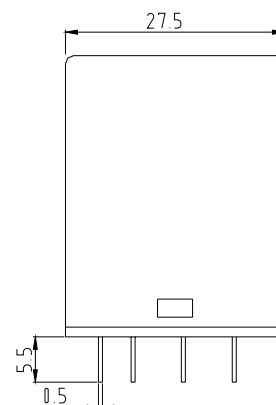
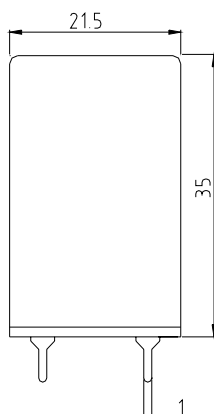
| Rated Voltage<br>(V) | DC Coil                                |                              |                              | AC Coil                                |                              |                              |
|----------------------|----------------------------------------|------------------------------|------------------------------|----------------------------------------|------------------------------|------------------------------|
|                      | Coil Resistance<br>$\Omega (\pm 10\%)$ | Max Operate Voltage<br>(VDC) | Min Release Voltage<br>(VDC) | Coil Resistance<br>$\Omega (\pm 10\%)$ | Max Operate Voltage<br>(VDC) | Min Release Voltage<br>(VDC) |
| 5                    | 32                                     | 3.75                         | 0.5                          | -                                      | -                            | -                            |
| 6                    | 40                                     | 4.5                          | 0.6                          | 10.5                                   | 4.8                          | 1.8                          |
| 12                   | 160                                    | 9                            | 1.2                          | 43                                     | 9.6                          | 3.6                          |
| 24                   | 650                                    | 18                           | 2.4                          | 160                                    | 19.2                         | 7.2                          |
| 48                   | 2600                                   | 36                           | 4.8                          | 668                                    | 38.4                         | 14.4                         |
| 120                  | -                                      | -                            | -                            | 3900                                   | 96                           | 36                           |
| 240                  | -                                      | -                            | -                            | 12000                                  | 176                          | 72                           |

## Outline Dimension (mm)

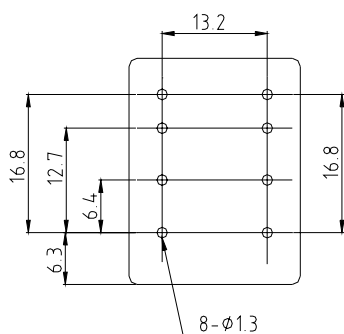
Plug-In Terminal



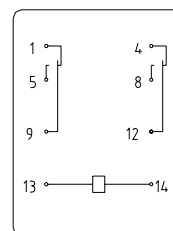
PCB Terminal



PC Board layout



Wiring Diagram



(Bottom View)

(Bottom View)