

## ORDERING CODE

HLS-T78-H- DC12V - A

CONTACT FORM

NIL:1 FORM C A:1 FORM A B:1 FORM B

NOMINAL VOLTAGE

DC6V,DC9V,DC12V,DC24V

COIL

NIL....STANDARD |0.6W|

H....HIGH POWER|0.8W|

TYPE

## CONTACT DATA

|                            |                                                                    |                         |
|----------------------------|--------------------------------------------------------------------|-------------------------|
| Contact Form               | 1A/1B/1C                                                           |                         |
| Contact Material           | Ag Alloy                                                           |                         |
| Contact Ratings            | NO:20A 14VDC/10A120VAC<br>NC:12A 14VDC/10A120VAC      1C:7A 120VAC |                         |
| Max Switching Voltage      | 16VDC/120VAC                                                       |                         |
| Max Switching Current      | 25A                                                                |                         |
| Max Switching Power        | 840VA/400W                                                         |                         |
| Initial Contact Resistance | 100m $\Omega$ Max                                                  | at6VDC 1A               |
| Life Expectancy Electrical | 100,000                                                            | Operations (rated load) |
| Life Expectancy Mechanical | 10,000,000                                                         | Operations (no load)    |

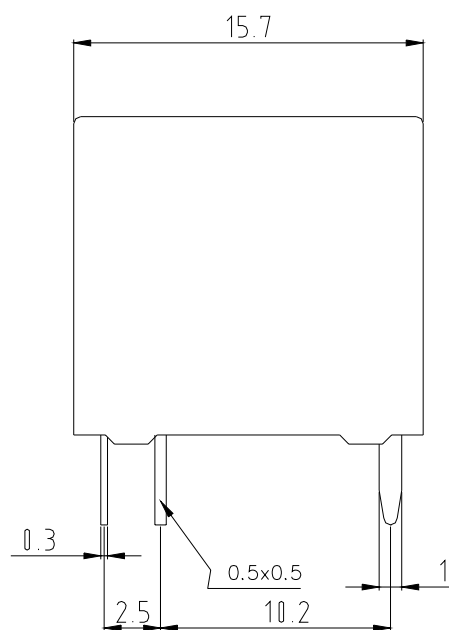
## GENERAL DATA

|                                               |             |                                 |
|-----------------------------------------------|-------------|---------------------------------|
| Insulation Resistance                         |             | 100M $\Omega$ min at500VDC      |
| Dielectric Strength Between Open Contacts     |             | 500VAC 50-60HZ (1minute)        |
| Dielectric Strength Between Contacts And Coil |             | 500VAC 50-60HZ (1 minute)       |
| Operate Time                                  |             | 10ms max                        |
| Release Time                                  |             | 5ms max                         |
| Ambient Temperature                           |             | -40°C to +85°C                  |
| Shock Resistance                              | Malfunction | 10G                             |
|                                               | Destruction | 100G                            |
| Vibration Resistance                          |             | 10-55Hz, 1.5mm double amplitude |
| Ambient humidity                              |             | 40-85% RH                       |
| Weight                                        |             | Approx 6g                       |
| Safety Standard                               |             | UL                              |

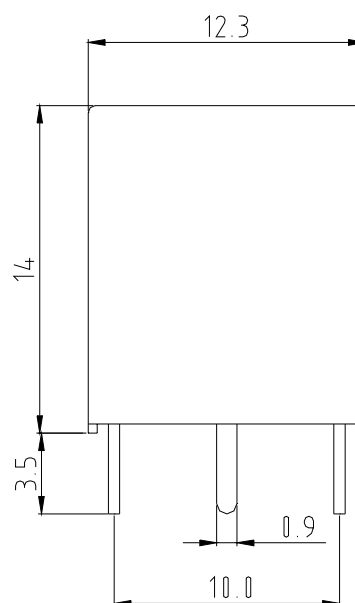
## COIL DATA

| Rated Voltage<br>(VDC) | Coil Resistance $\Omega$ ( $\pm 10\%$ ) |      | Max<br>Operate Voltage<br>(VDC) | Min<br>Release Voltage<br>(VDC) | Max<br>Applied Voltage<br>(VDC) |
|------------------------|-----------------------------------------|------|---------------------------------|---------------------------------|---------------------------------|
|                        | 0.6W                                    | 0.8W |                                 |                                 |                                 |
| 6                      | 60                                      | 45   | 3.9                             | 0.6                             | 7.8                             |
| 9                      | 135                                     | 101  | 5.85                            | 0.9                             | 11.7                            |
| 12                     | 240                                     | 180  | 7.8                             | 1.2                             | 15.6                            |
| 24                     | 960                                     | 720  | 15.6                            | 2.4                             | 31.2                            |

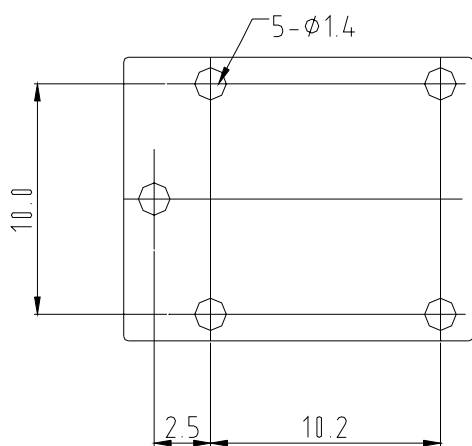
# Outline Dimension (mm)



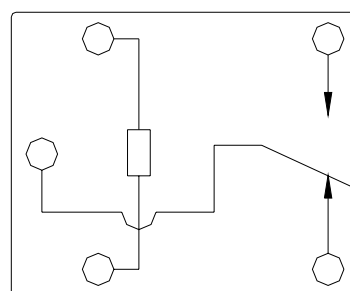
PC Board layout



Wiring Diagram



(Bottom View)



(Bottom View)