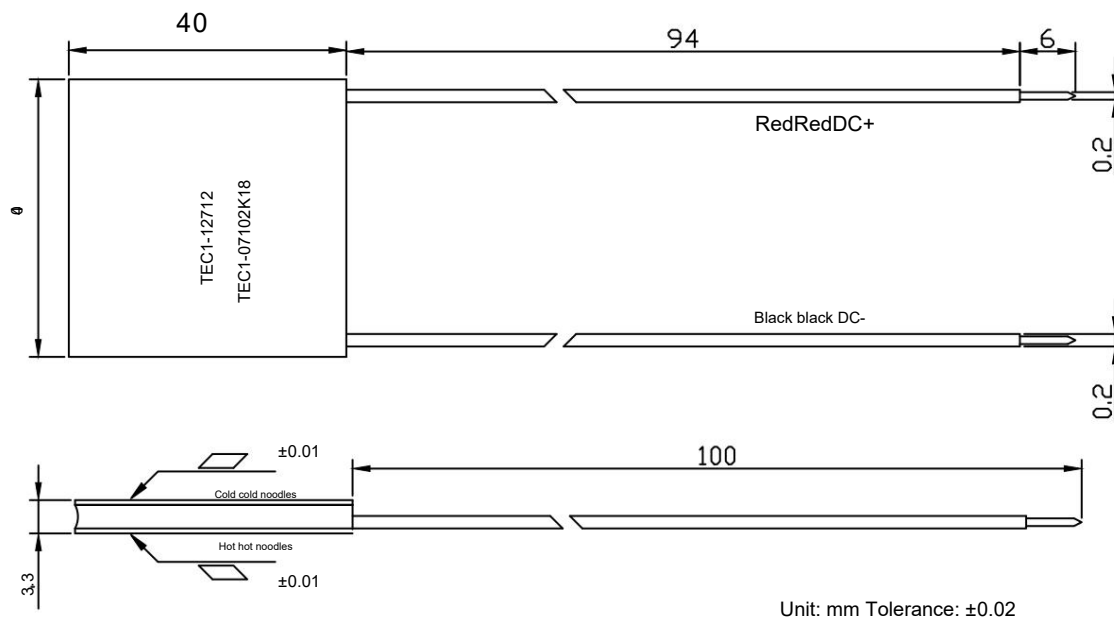


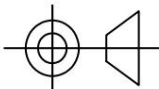
## Semiconductor refrigeration chip specifications

TEC1-12712

## 1. Dimensions



## 2. Performance indicators

|                                |       |                                                                                     |                                          |            |                     |          |
|--------------------------------|-------|-------------------------------------------------------------------------------------|------------------------------------------|------------|---------------------|----------|
| Product                        | Model | TEC1-12712                                                                          | Dimensions                               | Size       | 40x40x3.3mm         |          |
| Maximum voltage                | Vmax  | DC15.4V                                                                             | Internal resistance                      | Impe       | 1.19Ω               |          |
| Maximum current                | Imax  | 12A                                                                                 | Solder type                              | Solder     | Bi67+Sn33           |          |
| Maximum temperature difference | DTmax | 63℃                                                                                 | Packaging material                       | Imax       | 96% alumina+CU2     |          |
| Input power                    | Wmax  | 144W                                                                                | Sealing material                         | Sealup     | 704 silicone rubber |          |
| Cooling capacity               | Cool  | 112W                                                                                | Lead specifications<br><br>Wire standard | Wire gauge | length              | terminal |
| Maximum temperature resistance | Kmax  | ≤150℃                                                                               |                                          | UL1007     | +Red 100            | NO       |
|                                |       |                                                                                     |                                          | 18AGW      | -Black 100          |          |
| Thermoelectric Cooler          |       |  | Making orders                            | Name       | Huang Dong          |          |
|                                |       |                                                                                     | Update date                              | Date       | 2022-09-07          |          |