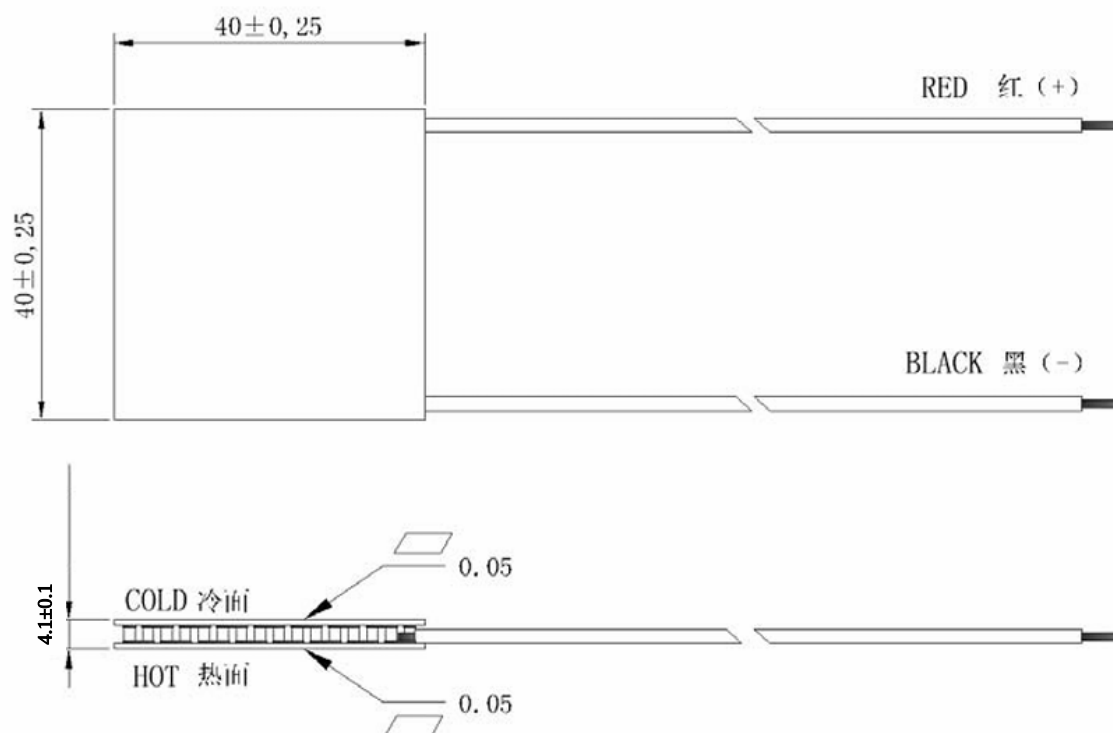


TEG1-199-1.4-0.8 Thermoelectric Generator

I .Module Drawing:



II .Materials

- 1.Ceramic plate : 96%Al₂O₃white color
- 2.Seal: Sealed with 704 RTV
- 3.Thermoelectric material:Bismuth Telluride
- 4.Graphite layer

III.Module Specification



Th= °C	Open Voltage (V)	Output voltage(V)	Internal R (Ω)	Load R (Ω)	Output wattage (W)
50	3.80	1.90	1.65	1.65	2.18
70	5.30	2.65	1.80	1.80	3.90
90	6.80	3.40	1.95	1.95	5.93
110	8.30	4.15	2.10	2.10	8.20
130	9.80	4.90	2.25	2.25	10.67
150	11.30	5.65	2.40	2.40	13.30
170	12.80	6.40	2.55	2.55	16.10
190	14.40	7.20	2.70	2.70	19.20

When $T_c=0^{\circ}\text{C}$ cold side temperature

Working temperature:-40~ 250 $^{\circ}\text{C}$

IV.The correct installation/assemble method.

- 1.There is cooling fin in one side of the thermoelectric generator module, and the other side install heat resource, the planeness of the install surface can't over 0.03mm,the surface need to be deburred and clean the dirty.
- 2.The module, cooling fin and heat resource should contact with each other very well, the touch surface need cover with heat-conducting glue.
- 3.Locate the module, apply the force evenly, make sure not over-force, avoid crushing the module.