Hebei I.T. (Shanghai) Co., Ltd.

**Specification**

<table>
<thead>
<tr>
<th>Item Number:</th>
<th>TEC1-06306</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device Outline</td>
<td>See picture below</td>
</tr>
<tr>
<td>Heat-shrink tube on the end of wire</td>
<td>Not available</td>
</tr>
<tr>
<td>Wire Criteria</td>
<td>1.20AWG UL, PVC insulated</td>
</tr>
<tr>
<td></td>
<td>2. Standard 105°C tinned copper wire</td>
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<tr>
<td></td>
<td>3. General length: 151±5mm</td>
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<td></td>
<td>4. Length of tinning without outer sphere on the end of wire: 5±1.0mm</td>
</tr>
<tr>
<td>Resistance (ohms)</td>
<td>Environment Temperature 20°C, 1KHZ, 0.95-1.05 (ohms)</td>
</tr>
<tr>
<td>Packing</td>
<td>Foam box</td>
</tr>
<tr>
<td>Printing</td>
<td>See picture below</td>
</tr>
</tbody>
</table>

**Type A: Small**

- Black Wire (-)
- Red Wire (+)

**Type B: Big**

- Black Wire (-)
- (+)
**Other Requirement:**
1. Working Temperature: -55 °C to +80°C
3. P/N Couples: 63 couples
4. I_max: 6±0.5A (7.6VCD)
5. V_max: 7.6VDC
6. Q_c_max: 42W (7.6VDC)
7. Resistance range: AC-R 0.95-1.05Ω (Surrounding Temperature 20°C 1KHZ)
8. ΔT_max: ≥63°C
9. Wire should be soldered on the hot side
10. 20AWG UL, PVC insulated, Standard 105°C tinned copper wire
Specifications for TEC1-6306:

1. **Qc vs I**
   - Graph shows Qc (Watts) vs I for various ΔT values (T=0, 10, 20, 30, 40, 50, 60, 68) at th=50°C.

2. **Vin vs Th**
   - Graph shows Vin (V) vs Th for various I values (I=1.0, 2.0, 3.0, 4.0, 5.0, 6.0 A) for ΔT=30°C.

- The graphs provide a clear representation of the performance characteristics of the TEC1-6306 module under different conditions.

peltiermodules.com
Specifcation

TEC1—6306

I—Vin Graph     Th=50°C

V
10.0
7.5
5.0
2.5
0

0 1.5 3.0 4.5 6.0 A

Δ T=60
Δ T=50
Δ T=30
Δ T=0