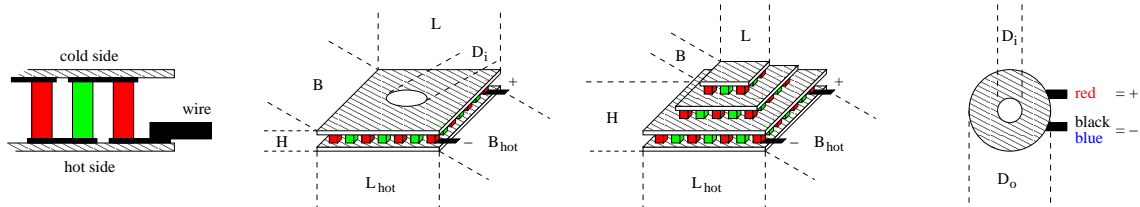


professional low cost peltier element



thermal and electrical data:

thermal force:

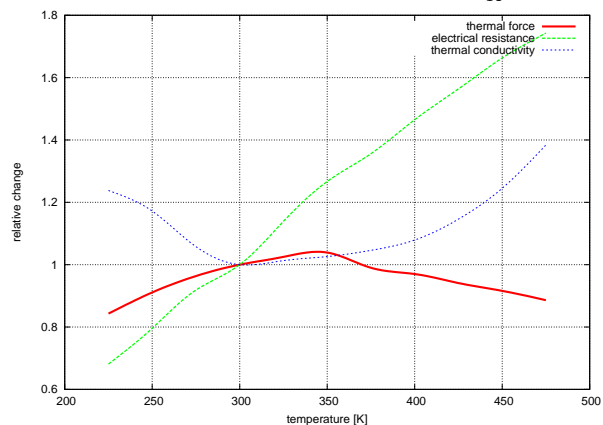
$$\alpha_{300K} = 0.0512 \frac{V}{K}$$

resistance:

$$\rho_{300K} = 2.97 \Omega$$

thermal conductivity:

$$\gamma_{300K} = 0.375 \frac{W}{K}$$



available maximum operating temperatures: T_{max}

125, 150, 200, 250 °C

tolerances:

±15%

mechanical data:

size of cold side:

$$L \times B \times H = 30.0 \times 30.0 \times 3.10 \text{ mm}$$

size of hot side:

$$L_{hot} \times B_{hot} = 30.0 \times 30.0 \text{ mm}$$

height tolerance:

$$\Delta H = \pm 0.5 \text{ mm}$$

length and width tolerances:

$$\Delta L \text{ and } \Delta B = \pm 1.0 \text{ mm}$$

weight:

$$m = 13 \text{ g}$$

ceramic plates:

BK-100 (grey), BK-96 (white) or AlN (opaque)

location of production:

China

experimental data:

typical values at:

maximum cooling power:

$T_h = 50^\circ C:$ $T_h = 300 K:$

at $\Delta T = 0$ and

Q_{max}	46.1 W	39.8 W
$I_{Q_{max}}$	5.6 A	5.2 A

maximum temperature difference:

ΔT_{max}	73.4 K	65.0 K
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at $Q = 0$ and

$I_{\Delta T_{max}}$	4.3 A	4.1 A
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U_{max}	16.5 V	15.4 V
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order information:

TEC2L-30-30-46/73-CS: sealed, max. 125°C

TEC2L-30-30-46/73-DS: sealed, max. 150°C

TEC2L-30-30-46/73-FS: sealed, max. 200°C

TEC2L-30-30-46/73-HS: sealed, max. 250°C