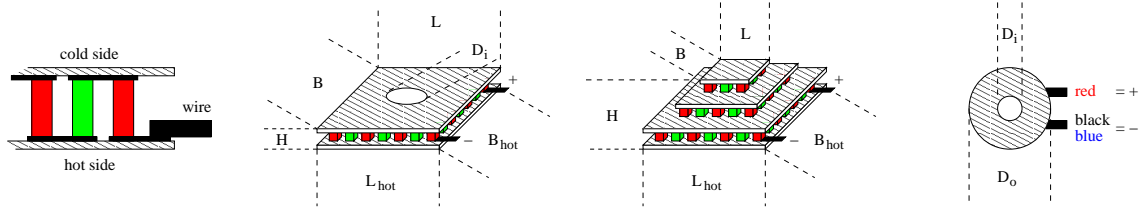


TEC2H-50-50-274/62

professional high power peltier element



thermal and electrical data:

thermal force:

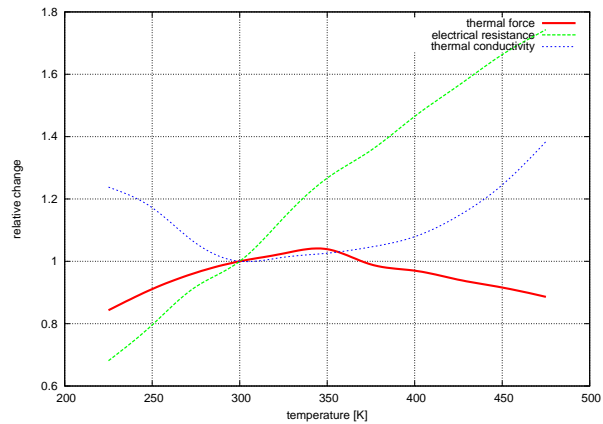
$$\alpha_{300K} \quad 0.0520 \quad \frac{V}{K}$$

resistance:

$$\rho_{300K} \quad 0.514 \quad \Omega$$

thermal conductivity:

$$\gamma_{300K} \quad 2.86 \quad \frac{W}{K}$$



available maximum operating temperatures: T_{max} 125, 150, 200 °C
 tolerances: ±15%

mechanical data:

size of cold side:

$$L \times B \times H \quad 50.0 \times 50.0 \times 3.10 \text{ mm}$$

size of hot side:

$$L_{hot} \times B_{hot} \quad 50.0 \times 50.0 \text{ mm}$$

height tolerance:

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

length and width tolerances:

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

weight:

$$m \quad 36 \text{ g}$$

ceramic plates:

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

location of production:

China

experimental data:

typical values at:

		$T_h = 50^\circ C:$	$T_h = 300 K:$
maximum cooling power:	Q_{max}	274.3 W	236.4 W
	at $\Delta T = 0$ and $I_{Q_{max}}$	32.7 A	30.3 A
maximum temperature difference:	ΔT_{max}	62.4 K	55.0 K
	at $Q = 0$ and $I_{\Delta T_{max}}$	26.4 A	24.8 A
	U_{max}	16.8 V	15.6 V

order information:

TEC2H-50-50-274/62-CS: sealed, max. 125°C

TEC2H-50-50-274/62-DS: sealed, max. 150°C

TEC2H-50-50-274/62-HS: sealed, max. 200°C