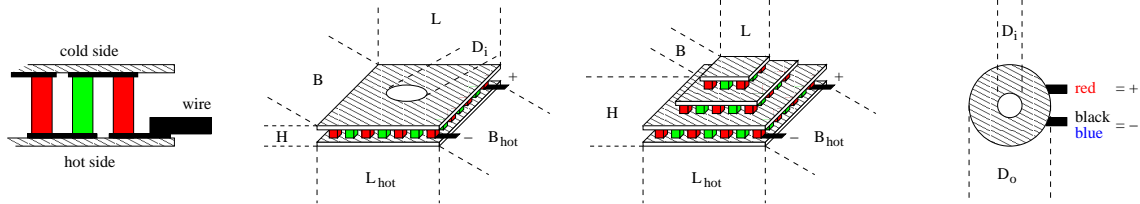


TEC2S-10-10-9.8/68

professional standard peltier element



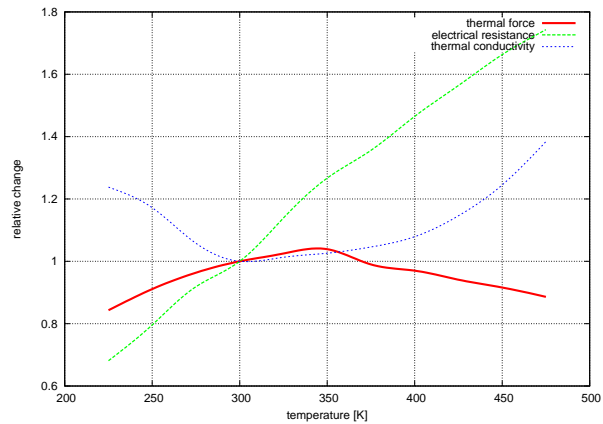
thermal and electrical data:

thermal force:

resistance:

thermal conductivity:

$$\begin{array}{ll} \alpha_{300K} & 0.00300 \frac{V}{K} \\ \rho_{300K} & 0.0480 \ \Omega \\ \gamma_{300K} & 0.0900 \frac{W}{K} \end{array}$$



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

mechanical data:

size of cold side:

$$L \times B \times H \quad 10.0 \times 10.0 \times 3.00 \text{ mm}$$

size of hot side:

$$L_{hot} \times B_{hot} \quad 10.0 \times 10.0 \text{ mm}$$

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:

$$m \quad 2 \text{ g}$$

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}	9.8 W	8.4 W
	at $\Delta T = 0$ and $I_{Q_{max}}$	20.2 A	18.8 A
maximum temperature difference:	ΔT_{max}	67.9 K	60.0 K
	at $Q = 0$ and $I_{\Delta T_{max}}$	16.0 A	15.0 A
	U_{max}	1.0 V	0.9 V

order information:

TEC2S-10-10-9.8/68-CS: sealed, max. 125°C
 TEC2S-10-10-9.8/68-DS: sealed, max. 150°C
 TEC2S-10-10-9.8/68-HS: sealed, max. 200°C