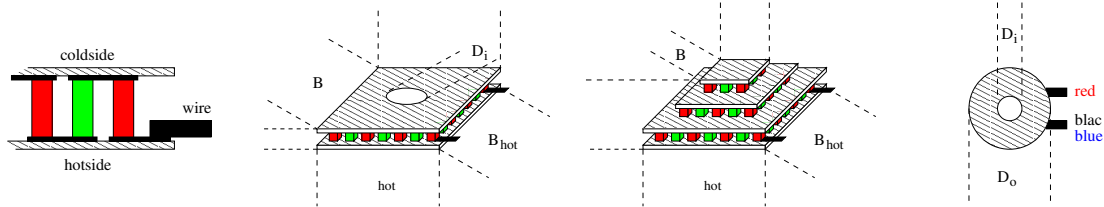


## industrial peltier element with centered hole



### thermal and electrical data:

thermal force:

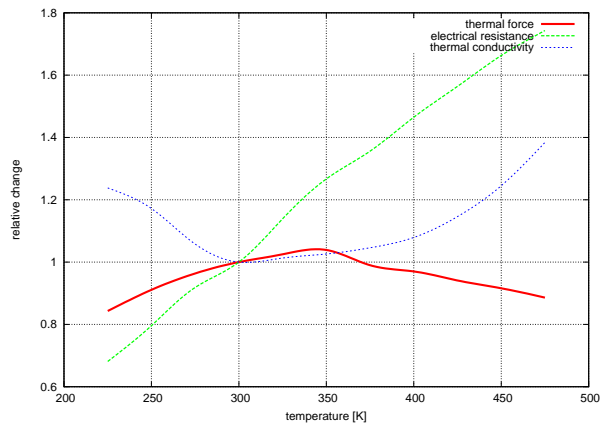
$$\alpha_{300K} \quad 0.0516 \quad \frac{V}{K}$$

resistance:

$$\rho_{300K} \quad 1.51 \quad \Omega$$

thermal conductivity:

$$\gamma_{300K} \quad 0.680 \quad \frac{W}{K}$$



available maximum operating temperatures:  $T_{max}$  80, 120, 150 (nonROHS!), 225 °C

typical tolerances: ±5%

### mechanical data:

size of cold side:

$$L \times B \times H \quad 40.0 \times 40.0 \times 3.40 \text{ mm}$$

size of hot side:

$$L_{hot} \times B_{hot} \quad 40.0 \times 40.0 \text{ mm}$$

hole:

$$\varnothing_i \quad 4.70 \text{ mm}$$

height tolerance:

$$\Delta H \quad \pm 0.25 \text{ mm}$$

length and width tolerances:

$$\Delta L \text{ and } \Delta B \quad +1.0 / -0.5 \text{ mm}$$

weight:

$$m \quad 26 \text{ g}$$

ceramic plates:

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

location of production:

Russia

### experimental data:

typical values at:

		$T_h = 50^\circ\text{C}$ :	$T_h = 300\text{K}$ :
maximum cooling power:	$Q_{max}$	91.8 W	79.1 W
	at $\Delta T = 0$ and $I_{Q_{max}}$	11.0 A	10.2 A
maximum temperature difference:	$\Delta T_{max}$	77.8 K	69.0 K
	at $Q = 0$ and $I_{\Delta T_{max}}$	8.4 A	7.9 A
	$U_{max}$	16.7 V	15.5 V

### order information:

TEC1R-40-40-4.7-92/78-B: max. 80°C  
TEC1R-40-40-4.7-92/78-C: max. 120°C  
TEC1R-40-40-4.7-92/78-D: max. 150°C  
TEC1R-40-40-4.7-92/78-G: max. 200°C

TEC1R-40-40-4.7-92/78-BS: sealed, max. 80°C  
TEC1R-40-40-4.7-92/78-CS: sealed, max. 120°C  
TEC1R-40-40-4.7-92/78-DS: sealed, max. 150°C  
TEC1R-40-40-4.7-92/78-GS: sealed, max. 200°C