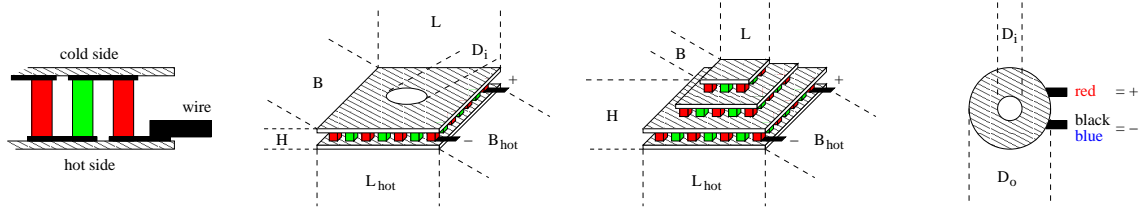


# TEC1R-40-40-4.7-72/79

## industrial peltier element with centered hole



### thermal and electrical data:

thermal force:

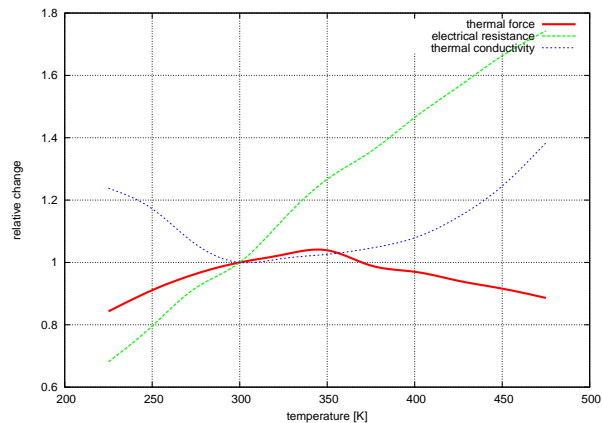
$$\alpha_{300K} \quad 0.0523 \quad \frac{V}{K}$$

resistance:

$$\rho_{300K} \quad 1.97 \quad \Omega$$

thermal conductivity:

$$\gamma_{300K} \quad 0.524 \quad \frac{W}{K}$$



available maximum operating temperatures:  $T_{max}$  80, 120, 150 (*nonROHS!*), 200 °C  
 typical tolerances:  $\pm 5\%$

### mechanical data:

size of cold side:

$$L \times B \times H \quad 40.0 \times 40.0 \times 3.90 \text{ mm}$$

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:

$$\Delta L \text{ and } \Delta B \quad +0.5 / -0.2 \text{ mm}$$

weight:

$$m \quad 29 \text{ g}$$

ceramic plates:

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

location of production:

Russia

### experimental data:

typical values at:

		$T_h = 50^\circ C:$	$T_h = 300 K:$
maximum cooling power:	$Q_{max}$	72.4 W	62.4 W
	at $\Delta T = 0$ and $I_{Q_{max}}$	8.6 A	8.0 A
maximum temperature difference:	$\Delta T_{max}$	78.9 K	70.0 K
	at $Q = 0$ and $I_{\Delta T_{max}}$	6.5 A	6.1 A
	$U_{max}$	16.9 V	15.7 V

### order information:

# TEC1R-40-40-4.7-72/79

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TEC1R-40-40-4.7-72/79-B: max. 80°C  
TEC1R-40-40-4.7-72/79-C: max. 120°C  
TEC1R-40-40-4.7-72/79-D: max. 150°C  
TEC1R-40-40-4.7-72/79-G: max. 200°C

TEC1R-40-40-4.7-72/79-BS: sealed, max. 80°C  
TEC1R-40-40-4.7-72/79-CS: sealed, max. 120°C  
TEC1R-40-40-4.7-72/79-DS: sealed, max. 150°C  
TEC1R-40-40-4.7-72/79-GS: sealed, max. 200°C