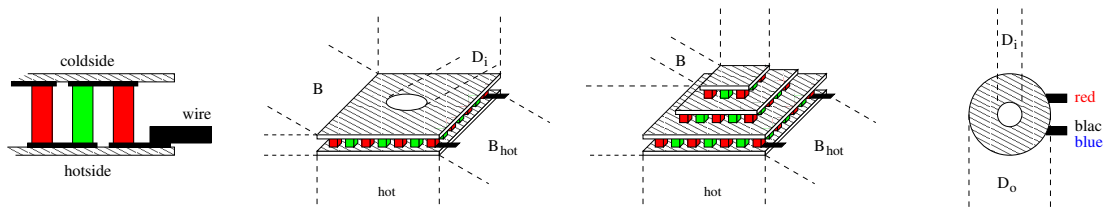


industrial peltier element with centered hole



thermal and electrical data:

thermal force:

resistance:

thermal conductivity:

α_{300K}

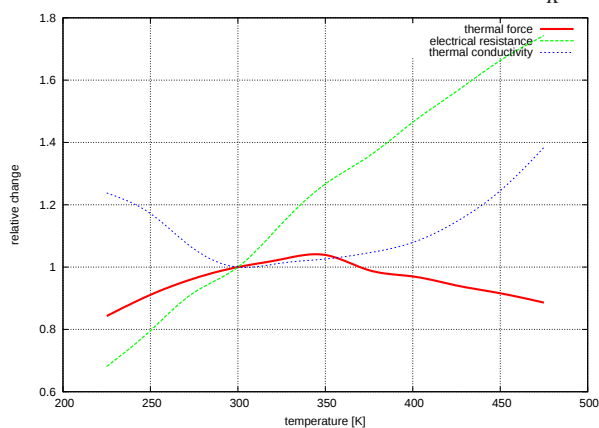
ρ_{300K}

γ_{300K}

0.0492 $\frac{V}{K}$

1.43 Ω

0.655 $\frac{W}{K}$



available maximum operating temperatures: T_{max}

80, 120, 150 (nonROHS!), 225 °C

typical tolerances:

±5 %

mechanical data:

size of cold side:

size of hot side:

hole:

height tolerance:

length and width tolerances:

weight:

ceramic plates:

$L \times B \times H$

$L_{hot} \times B_{hot}$

$\varnothing_i$

ΔH

ΔL and ΔB

m

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

40.0 × 40.0 × 3.40 mm

40.0 × 40.0 mm

7.80 mm

±0.25 mm

+1.0 / -0.5 mm

26 g

location of production:

Russia

experimental data:

typical values at:

$T_h = 50^\circ C$:

$T_h = 300 K$:

maximum cooling power:

at $\Delta T = 0$ and

Q_{max}

$I_{Q_{max}}$

88.4 W

11.1 A

76.2 W

10.3 A

maximum temperature difference:

at $Q = 0$ and

ΔT_{max}

$I_{\Delta T_{max}}$

77.8 K

8.4 A

69.0 K

7.9 A

U_{max}

15.9 V

14.8 V

order information:

TEC1R-40-40-7.8-88/78-B: max. 80°C
TEC1R-40-40-7.8-88/78-C: max. 120°C
TEC1R-40-40-7.8-88/78-D: max. 150°C
TEC1R-40-40-7.8-88/78-G: max. 200°C

TEC1R-40-40-7.8-88/78-BS: sealed, max. 80°C
TEC1R-40-40-7.8-88/78-CS: sealed, max. 120°C
TEC1R-40-40-7.8-88/78-DS: sealed, max. 150°C
TEC1R-40-40-7.8-88/78-GS: sealed, max. 200°C