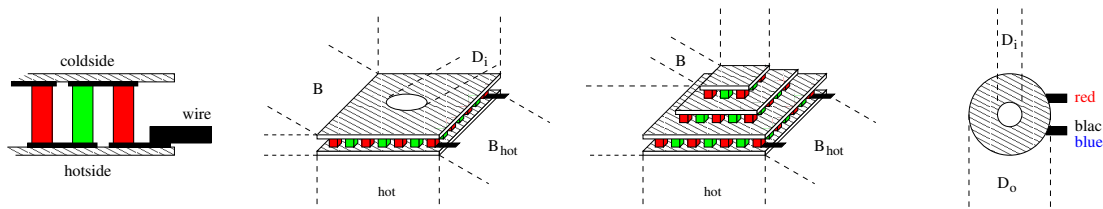


industrial micro peltier element



thermal and electrical data:

thermal force:

resistance:

thermal conductivity:

α_{300K}

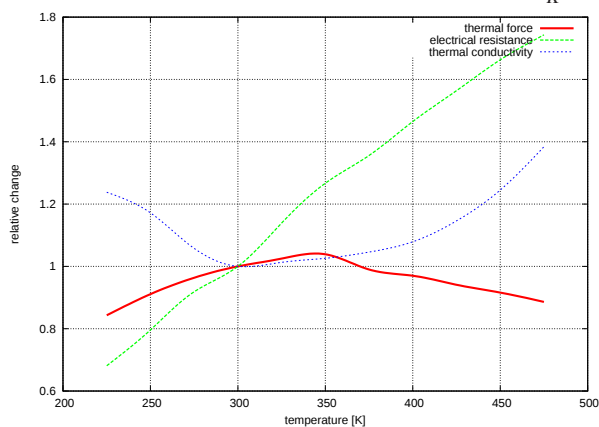
ρ_{300K}

γ_{300K}

0.00695 $\frac{V}{K}$

0.247 Ω

0.0776 $\frac{W}{K}$



available maximum operating temperatures: T_{max}

80, 120, 150(nonROHS!), 225 °C

typical tolerances:

±5 %

mechanical data:

size of cold side:

$L \times B \times H$

8.0 × 8.0 × 2.50 mm

size of hot side:

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

8.0 × 8.0 mm

height tolerance:

ΔH

±0.25 mm

length and width tolerances:

ΔL and ΔB

+1.0/ -0.5 mm

weight:

m

1 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}

10.2 W

8.8 W

at $\Delta T = 0$ and

$I_{Q_{max}}$

9.1 A

8.5 A

maximum temperature difference:

ΔT_{max}

76.7 K

68.0 K

at $Q = 0$ and

$I_{\Delta T_{max}}$

7.0 A

6.5 A

U_{max}

2.2 V

2.1 V

order information:

TEC1M-8.0-8.0-10/77-B: max. 80°C

TEC1M-8.0-8.0-10/77-C: max. 120°C

TEC1M-8.0-8.0-10/77-D: max. 150°C

TEC1M-8.0-8.0-10/77-G: max. 200°C