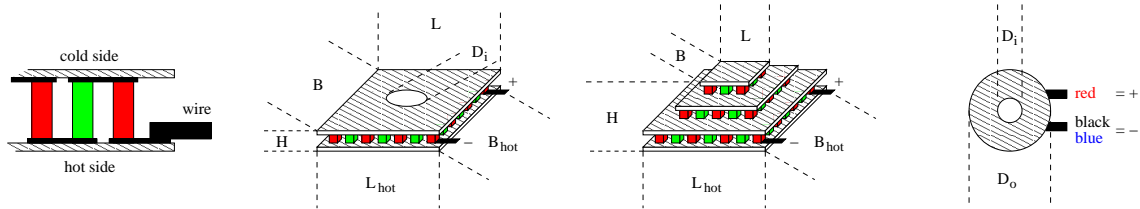


industrial micro peltier element



thermal and electrical data:

thermal force:

α_{300K}

0.0264 $\frac{V}{K}$

resistance:

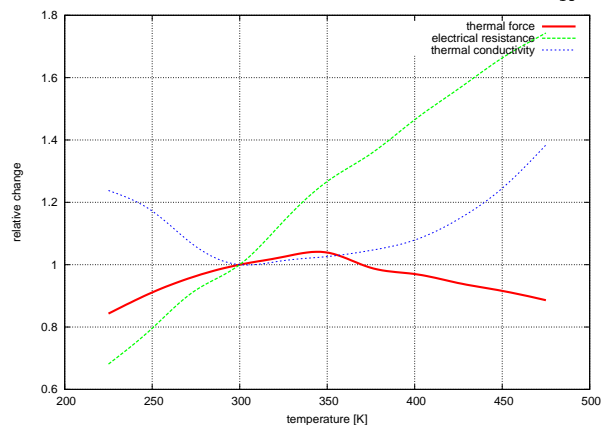
ρ_{300K}

2.96 Ω

thermal conductivity:

γ_{300K}

0.0931 $\frac{W}{K}$



available maximum operating temperatures: T_{max}

80, 120, 150(non-ROHS!), 225 °C

typical tolerances:

±5 %

mechanical data:

size of cold side:

$L \times B \times H$

12.0 × 13.0 × 2.50 mm

size of hot side:

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

12.0 × 13.0 mm

height tolerance:

ΔH

±0.25 mm

length and width tolerances:

ΔL and ΔB

+0.5/ - 0.2 mm

weight:

m

2 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}	12.3 W	10.6 W
	at $\Delta T = 0$ and $I_{Q_{max}}$	2.9 A	2.7 A
maximum temperature difference:	ΔT_{max}	76.8 K	68.0 K
	at $Q = 0$ and $I_{\Delta T_{max}}$	2.2 A	2.1 A
	U_{max}	8.5 V	7.9 V

order information:

TEC1M-12-13-12/77-B: max. 80°C
 TEC1M-12-13-12/77-C: max. 120°C
 TEC1M-12-13-12/77-D: max. 150°C
 TEC1M-12-13-12/77-G: max. 225°C