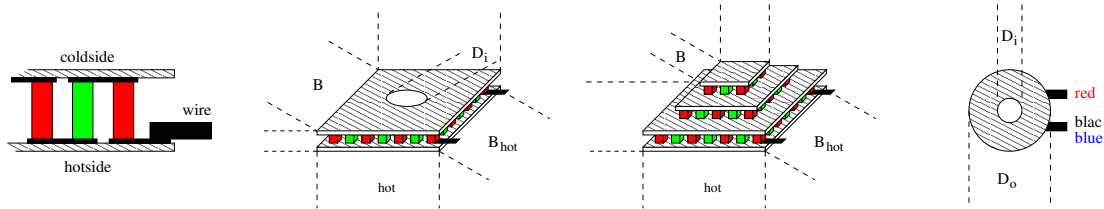


industrial micro peltier element



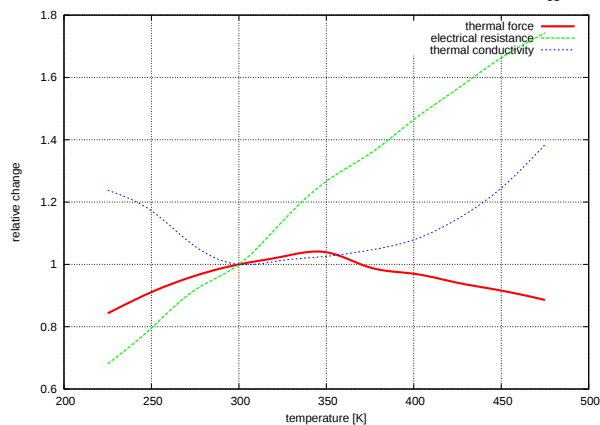
thermal and electrical data:

thermal force:

resistance:

thermal conductivity:

α_{300K}	0.0270	$\frac{V}{K}$
ρ_{300K}	8.85	Ω
γ_{300K}	0.0333	$\frac{W}{K}$



available maximum operating temperatures: T_{max} 80, 120, 150(nonROHS!), 225 °C
typical tolerances: $\pm 5\%$

mechanical data:

size of cold side:	$L \times B \times H$	$9.1 \times 9.9 \times 2.30 \text{ mm}$
size of hot side:	$L_{hot} \times B_{hot}$	$9.1 \times 11.5 \text{ mm}$
height tolerance:	ΔH	$\pm 0.25 \text{ mm}$
length and width tolerances:	ΔL and ΔB	$+1.0 / -0.5 \text{ mm}$
weight:	m	2 g
ceramic plates:		BK-100 (grey), BK-96 (white) or AlN (opaque)

location of production: Russia

experimental data:

typical values at:		$T_h = 50^\circ \text{C}$:	$T_h = 300 \text{ K}$:
maximum cooling power:	Q_{max}	4.3 W	3.7 W
	at $\Delta T = 0$ and $I_{Q_{max}}$	1.0 A	0.9 A
maximum temperature difference:	ΔT_{max}	75.6 K	67.0 K
	at $Q = 0$ and $I_{\Delta T_{max}}$	0.8 A	0.7 A
	U_{max}	8.7 V	8.1 V

order information:

TEC1M-9.1-9.9-4.3/76-B:	max. 80°C
TEC1M-9.1-9.9-4.3/76-C:	max. 120°C
TEC1M-9.1-9.9-4.3/76-D:	max. 150°C
TEC1M-9.1-9.9-4.3/76-G:	max. 200°C