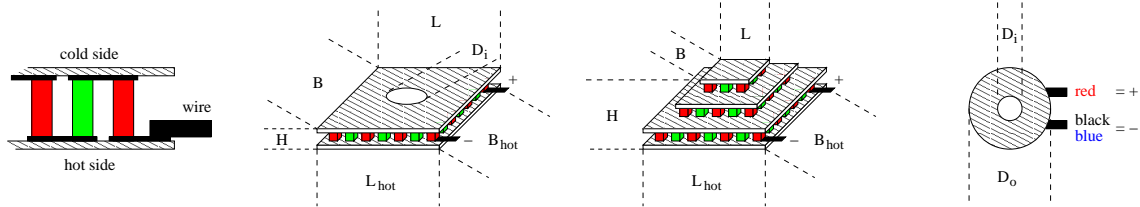


TEC1M-4.3-4.3-1.1/78

industrial micro peltier element



thermal and electrical data:

thermal force:

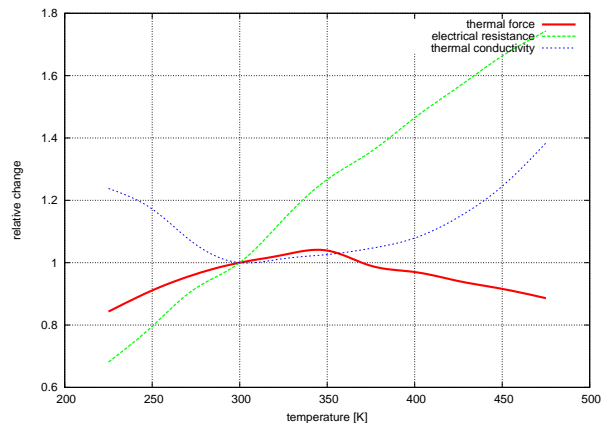
$$\alpha_{300K} \quad 0.00293 \frac{V}{K}$$

resistance:

$$\rho_{300K} \quad 0.411 \Omega$$

thermal conductivity:

$$\gamma_{300K} \quad 0.00807 \frac{W}{K}$$



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

mechanical data:

size of cold side:

$$L \times B \times H \quad 4.3 \times 4.3 \times 2.80 \text{ mm}$$

size of hot side:

$$L_{hot} \times B_{hot} \quad 4.3 \times 4.3 \text{ mm}$$

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:

$$m \quad 1 \text{ g}$$

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}	1.1 W	0.9 W
	at $\Delta T = 0$ and $I_{Q_{max}}$	2.3 A	2.1 A
maximum temperature difference:	ΔT_{max}	77.9 K	69.0 K
	at $Q = 0$ and $I_{\Delta T_{max}}$	1.7 A	1.6 A
	U_{max}	0.9 V	0.9 V

order information:

TEC1M-4.3-4.3-1.1/78-B: max. 80°C
 TEC1M-4.3-4.3-1.1/78-C: max. 120°C
 TEC1M-4.3-4.3-1.1/78-D: max. 150°C
 TEC1M-4.3-4.3-1.1/78-G: max. 200°C