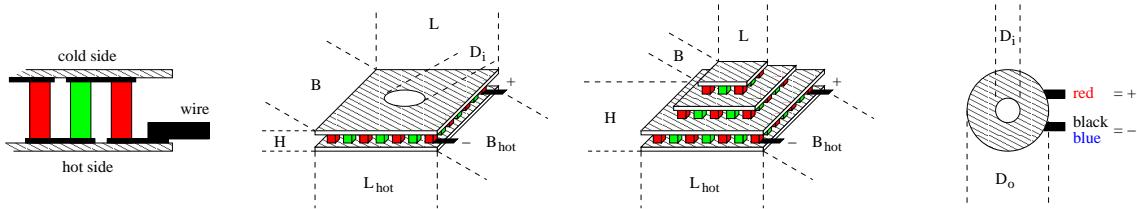


TEC1M-6.3-6.3-2.7/78

industrial micro peltier element



thermal and electrical data:

thermal force:

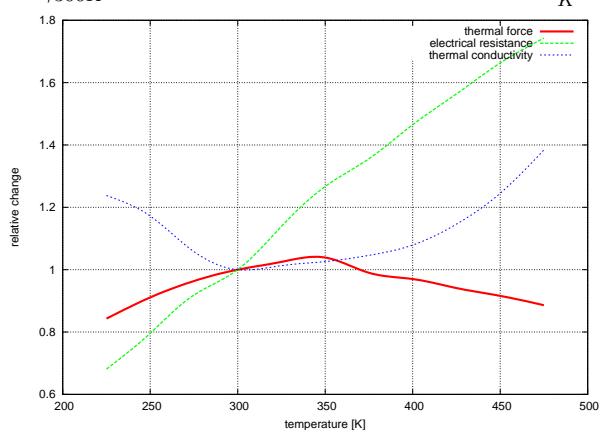
$$\alpha_{300K} \quad 0.00701 \frac{V}{K}$$

resistance:

$$\rho_{300K} \quad 0.951 \Omega$$

thermal conductivity:

$$\gamma_{300K} \quad 0.0200 \frac{W}{K}$$



available maximum operating temperatures: T_{max} 80, 120, 150 (non ROHS!), 200 °C

typical tolerances:

±5 %

mechanical data:

size of cold side:

$$L \times B \times H \quad 6.3 \times 6.3 \times 2.80 mm$$

size of hot side:

$$L_{hot} \times B_{hot} \quad 6.3 \times 6.3 mm$$

height tolerance:

$$\pm 0.25 mm$$

length and width tolerances:

$$\Delta L \text{ and } \Delta B \quad +0.5 / -0.2 mm$$

weight:

$$m \quad 1 g$$

ceramic plates:

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

location of production:

Russia

experimental data:

typical values at:

$$T_h = 50^\circ C: \quad T_h = 300 K:$$

| | | | |
|---|--|-----------------|-----------------|
| maximum cooling power: at $\Delta T = 0$ and | Q_{max} $I_{Q_{max}}$ | 2.7 W 2.4 A | 2.3 W 2.2 A |
| maximum temperature difference: at $Q = 0$ and | ΔT_{max} $I_{\Delta T_{max}}$ | 77.8 K 1.8 A | 69.0 K 1.7 A |
| | U_{max} | 2.3 V | 2.1 V |

order information:

TEC1M-6.3-6.3-2.7/78-B: max. 80°C

TEC1M-6.3-6.3-2.7/78-C: max. 120°C

TEC1M-6.3-6.3-2.7/78-D: max. 150°C

TEC1M-6.3-6.3-2.7/78-G: max. 200°C