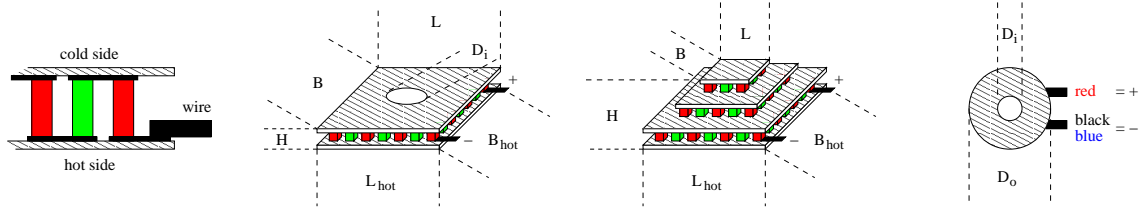


TEC1C-24.0-9.8-21/78

industrial round peltier element with hole



thermal and electrical data:

thermal force:

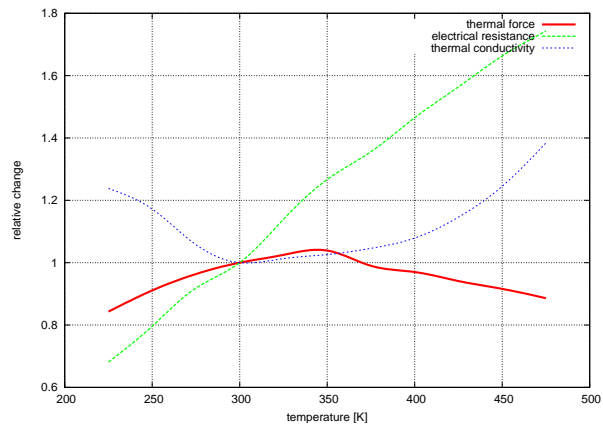
$$\alpha_{300K} = 0.0157 \frac{V}{K}$$

resistance:

$$\rho_{300K} = 0.624 \Omega$$

thermal conductivity:

$$\gamma_{300K} = 0.153 \frac{W}{K}$$



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

mechanical data:

size:

$$\varnothing_o \times H = 24.0 \times 3.20 \text{ mm}$$

hole:

$$\varnothing_i = 9.80 \text{ mm}$$

height tolerance:

$$\Delta H = \pm 0.25 \text{ mm}$$

length and width tolerances:

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

weight:

$$m = 7 \text{ g}$$

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}	20.6 W	17.7 W
	at $\Delta T = 0$ and $I_{Q_{max}}$	8.1 A	7.5 A
maximum temperature difference:	ΔT_{max}	77.8 K	69.0 K
	at $Q = 0$ and $I_{\Delta T_{max}}$	6.2 A	5.8 A
	U_{max}	5.1 V	4.7 V

order information:

TEC1C-24.0-9.8-21/78-B: max. 80°C
 TEC1C-24.0-9.8-21/78-C: max. 120°C
 TEC1C-24.0-9.8-21/78-D: max. 150°C
 TEC1C-24.0-9.8-21/78-G: max. 200°C

TEC1C-24.0-9.8-21/78-BS: sealed, max. 80°C
 TEC1C-24.0-9.8-21/78-CS: sealed, max. 120°C
 TEC1C-24.0-9.8-21/78-DS: sealed, max. 150°C
 TEC1C-24.0-9.8-21/78-GS: sealed, max. 200°C