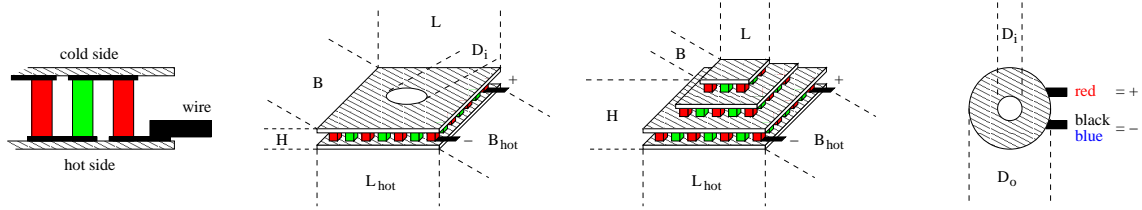


industrial peltier element with centered hole



thermal and electrical data:

thermal force:

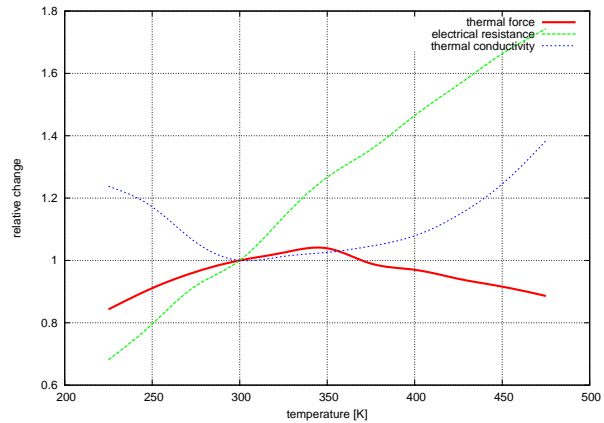
α_{300K} 0.0490 $\frac{V}{K}$

resistance:

ρ_{300K} 3.65 Ω

thermal conductivity:

γ_{300K} 0.254 $\frac{W}{K}$



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

mechanical data:

size of cold side:

$L \times B \times H$ 30.0 × 30.0 × 3.80 mm

size of hot side:

$L_{hot} \times B_{hot}$ 30.0 × 30.0 mm

hole:

\varnothing_i 4.00 mm

height tolerance:

ΔH ± 0.25 mm

length and width tolerances:

ΔL and ΔB +0.5/ - 0.2 mm

weight:

m 16 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}	34.3 W	29.6 W
	at $\Delta T = 0$ and $I_{Q_{max}}$	4.3 A	4.0 A
maximum temperature difference:	ΔT_{max}	77.8 K	69.0 K
	at $Q = 0$ and $I_{\Delta T_{max}}$	3.3 A	3.1 A
	U_{max}	15.8 V	14.7 V

order information:

TEC1R-30-30-4.0-34/78-B: max. 80°C
TEC1R-30-30-4.0-34/78-C: max. 120°C
TEC1R-30-30-4.0-34/78-D: max. 150°C
TEC1R-30-30-4.0-34/78-G: max. 225°C

TEC1R-30-30-4.0-34/78-BS: sealed, max. 80°C
TEC1R-30-30-4.0-34/78-CS: sealed, max. 120°C
TEC1R-30-30-4.0-34/78-DS: sealed, max. 150°C
TEC1R-30-30-4.0-34/78-GS: sealed, max. 225°C