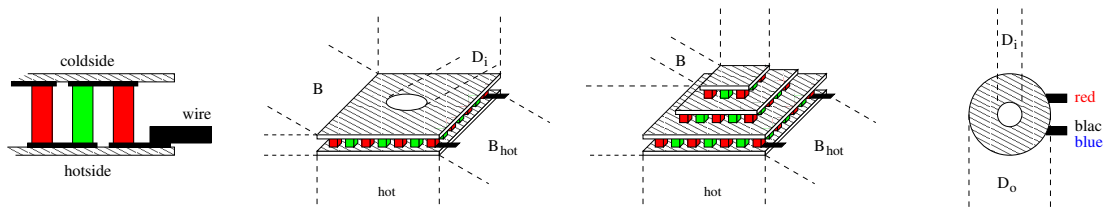


industrial standard peltier element



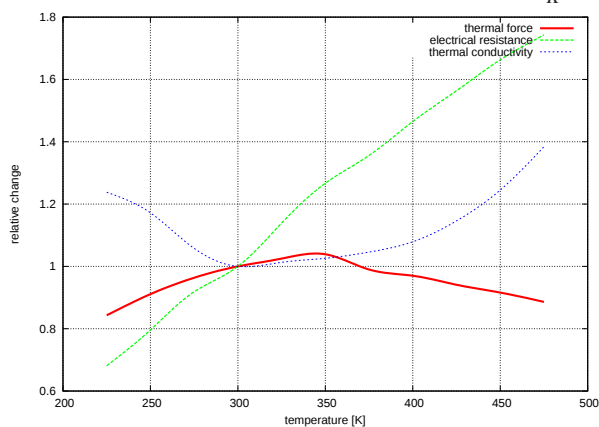
thermal and electrical data:

thermal force:

resistance:

thermal conductivity:

α_{300K}	0.0131	$\frac{V}{K}$
ρ_{300K}	0.517	Ω
γ_{300K}	0.128	$\frac{W}{K}$



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

mechanical data:

size of cold side:

$L \times B \times H$ 6.0 × 40.0 × 3.30 mm

size of hot side:

$L_{hot} \times B_{hot}$ 6.0 × 40.0 mm

height tolerance:

ΔH ± 0.25 mm

length and width tolerances:

ΔL and ΔB +1.0/ -0.5 mm

weight:

m 4 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}	17.3 W	14.9 W
	at $\Delta T = 0$ and $I_{Q_{max}}$	8.2 A	7.6 A
maximum temperature difference:	ΔT_{max}	77.8 K	69.0 K
	at $Q = 0$ and $I_{\Delta T_{max}}$	6.2 A	5.9 A
	U_{max}	4.2 V	3.9 V

order information:

TEC1S-6.0-40.0-17/78-B: max. 80°C
TEC1S-6.0-40.0-17/78-C: max. 120°C
TEC1S-6.0-40.0-17/78-D: max. 150°C
TEC1S-6.0-40.0-17/78-G: max. 200°C

TEC1S-6.0-40.0-17/78-BS: sealed, max. 80°C
TEC1S-6.0-40.0-17/78-CS: sealed, max. 120°C
TEC1S-6.0-40.0-17/78-DS: sealed, max. 150°C
TEC1S-6.0-40.0-17/78-GS: sealed, max. 200°C