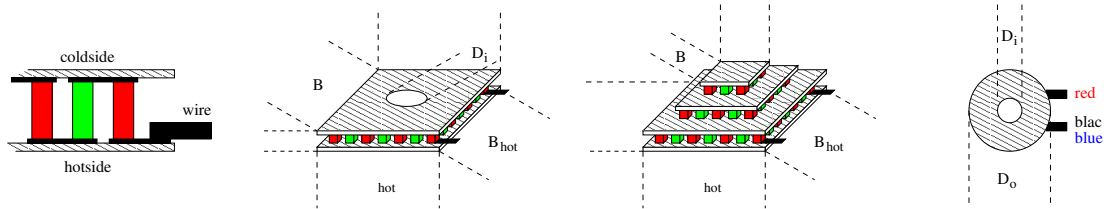


industrial standard peltier element



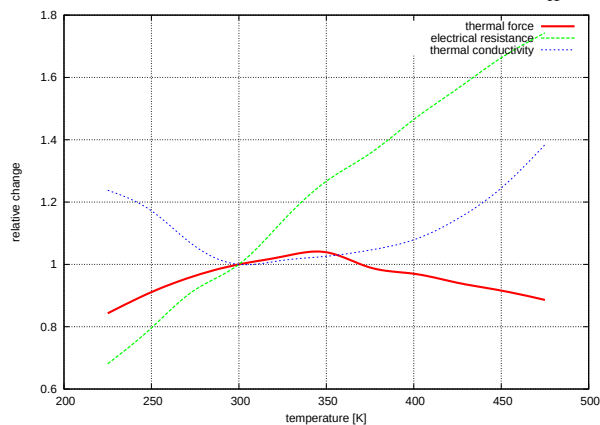
thermal and electrical data:

thermal force:

resistance:

thermal conductivity:

α_{300K}	0.00933 $\frac{V}{K}$
ρ_{300K}	0.599 Ω
γ_{300K}	0.0563 $\frac{W}{K}$



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

mechanical data:

size of cold side:	$L \times B \times H$	$5.0 \times 30.0 \times 3.60 mm$
size of hot side:	$L_{hot} \times B_{hot}$	$5.0 \times 30.0 mm$
height tolerance:	ΔH	$\pm 0.25 mm$
length and width tolerances:	ΔL and ΔB	$+1.0 / -0.5 mm$
weight:	m	3 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}	7.6 W	6.5 W
	at $\Delta T = 0$ and $I_{Q_{max}}$	5.0 A	4.7 A
maximum temperature difference:	ΔT_{max}	77.8 K	69.0 K
	at $Q = 0$ and $I_{\Delta T_{max}}$	3.8 A	3.6 A
	U_{max}	3.0 V	2.8 V

order information:

TEC1S-5.0-30.0-7.6/78-B: max. 80°C
TEC1S-5.0-30.0-7.6/78-C: max. 120°C
TEC1S-5.0-30.0-7.6/78-D: max. 150°C
TEC1S-5.0-30.0-7.6/78-G: max. 200°C

TEC1S-5.0-30.0-7.6/78-BS: sealed, max. 80°C
TEC1S-5.0-30.0-7.6/78-CS: sealed, max. 120°C
TEC1S-5.0-30.0-7.6/78-DS: sealed, max. 150°C
TEC1S-5.0-30.0-7.6/78-GS: sealed, max. 200°C