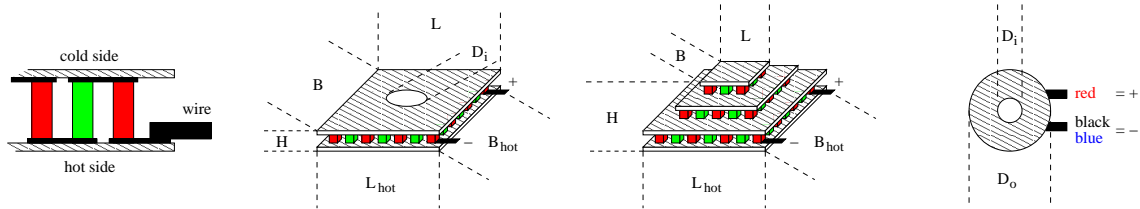


industrial standard peltier element



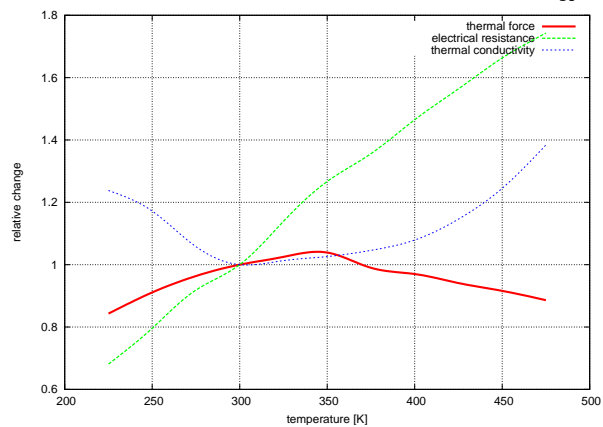
thermal and electrical data:

thermal force:

resistance:

thermal conductivity:

α_{300K}	0.0514	$\frac{V}{K}$
ρ_{300K}	0.494	Ω
γ_{300K}	2.07	$\frac{W}{K}$



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

mechanical data:

size of cold side:

$L \times B \times H$ 55.0 × 55.0 × 3.30 mm

size of hot side:

$L_{hot} \times B_{hot}$ 55.0 × 59.0 mm

height tolerance:

ΔH ± 0.25 mm

length and width tolerances:

ΔL and ΔB +0.5/ - 0.2 mm

weight:

m 50 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}	280.0 W	241.3 W
	at $\Delta T = 0$ and $I_{Q_{max}}$	33.7 A	31.3 A
maximum temperature difference:	ΔT_{max}	77.9 K	69.0 K
	at $Q = 0$ and $I_{\Delta T_{max}}$	25.6 A	24.1 A
	U_{max}	16.6 V	15.4 V

order information:

TEC1SE-55-55-280/78-B: max. 80°C
 TEC1SE-55-55-280/78-C: max. 120°C
 TEC1SE-55-55-280/78-D: max. 150°C
 TEC1SE-55-55-280/78-G: max. 225°C

TEC1SE-55-55-280/78-BS: sealed, max. 80°C
 TEC1SE-55-55-280/78-CS: sealed, max. 120°C
 TEC1SE-55-55-280/78-DS: sealed, max. 150°C
 TEC1SE-55-55-280/78-GS: sealed, max. 225°C