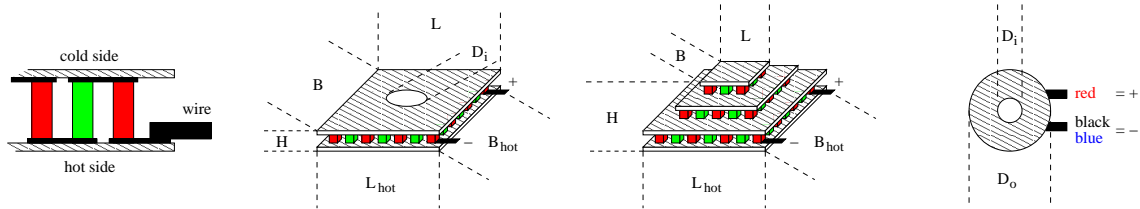


## industrial standard peltier element



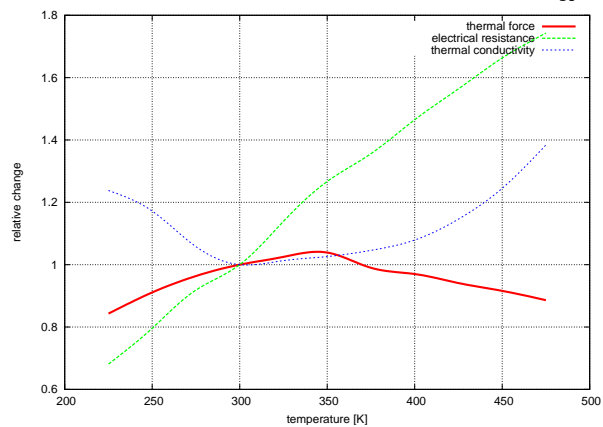
### thermal and electrical data:

thermal force:

resistance:

thermal conductivity:

$\alpha_{300K}$	0.00705	$\frac{V}{K}$
$\rho_{300K}$	0.263	$\Omega$
$\gamma_{300K}$	0.0713	$\frac{W}{K}$



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

### mechanical data:

size of cold side:

$L \times B \times H$  15.0 × 15.0 × 3.90 mm

size of hot side:

$L_{hot} \times B_{hot}$  15.0 × 15.0 mm

height tolerance:

$\Delta H$   $\pm 0.25$  mm

length and width tolerances:

$\Delta L$  and  $\Delta B$  +0.5/ - 0.2 mm

weight:

$m$  5 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:	$Q_{max}$	9.9 W	8.5 W
	at $\Delta T = 0$ and $I_{Q_{max}}$	8.7 A	8.0 A
maximum temperature difference:	$\Delta T_{max}$	78.9 K	70.0 K
	at $Q = 0$ and $I_{\Delta T_{max}}$	6.5 A	6.2 A
	$U_{max}$	2.3 V	2.1 V

### order information:

TEC1S-15-15-9.9/79-B: max. 80°C  
 TEC1S-15-15-9.9/79-C: max. 120°C  
 TEC1S-15-15-9.9/79-D: max. 150°C  
 TEC1S-15-15-9.9/79-G: max. 225°C

TEC1S-15-15-9.9/79-BS: sealed, max. 80°C  
 TEC1S-15-15-9.9/79-CS: sealed, max. 120°C  
 TEC1S-15-15-9.9/79-DS: sealed, max. 150°C  
 TEC1S-15-15-9.9/79-GS: sealed, max. 225°C