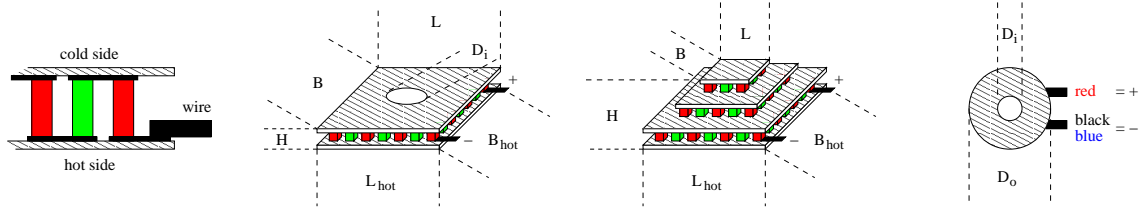


# TEC1S-15-30-11/79

## industrial standard peltier element



### thermal and electrical data:

thermal force:

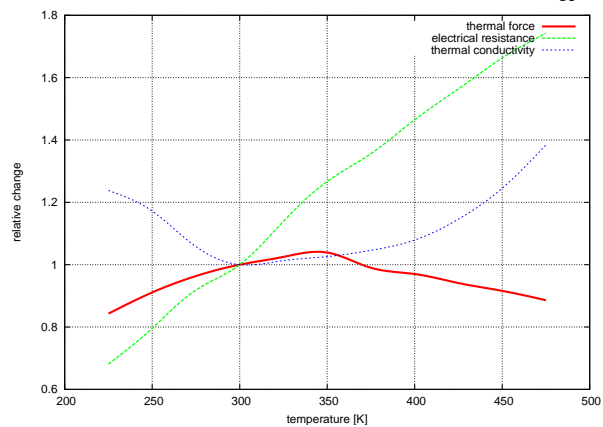
$$\alpha_{300K} = 0.0261 \frac{V}{K}$$

resistance:

$$\rho_{300K} = 3.20 \Omega$$

thermal conductivity:

$$\gamma_{300K} = 0.0804 \frac{W}{K}$$



available maximum operating temperatures:  $T_{max}$  80, 120, 150(non-ROHS!), 200 °C  
 typical tolerances:  $\pm 5\%$

### mechanical data:

size of cold side:

$$L \times B \times H = 15.0 \times 30.0 \times 4.80 \text{ mm}$$

size of hot side:

$$L_{hot} \times B_{hot} = 15.0 \times 30.0 \text{ mm}$$

height tolerance:

$$\Delta H = \pm 0.25 \text{ mm}$$

length and width tolerances:

$$\Delta L \text{ and } \Delta B = +0.5 / -0.2 \text{ mm}$$

weight:

$$m = 10 \text{ g}$$

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:	$Q_{max}$	11.1 W	9.6 W
	at $\Delta T = 0$ and $I_{Q_{max}}$	2.6 A	2.4 A
maximum temperature difference:	$\Delta T_{max}$	79.0 K	70.0 K
	at $Q = 0$ and $I_{\Delta T_{max}}$	2.0 A	1.9 A
	$U_{max}$	8.4 V	7.8 V

### order information:

TEC1S-15-30-11/79-B: max. 80°C  
 TEC1S-15-30-11/79-C: max. 120°C  
 TEC1S-15-30-11/79-D: max. 150°C  
 TEC1S-15-30-11/79-G: max. 200°C

TEC1S-15-30-11/79-BS: sealed, max. 80°C  
 TEC1S-15-30-11/79-CS: sealed, max. 120°C  
 TEC1S-15-30-11/79-DS: sealed, max. 150°C  
 TEC1S-15-30-11/79-GS: sealed, max. 200°C