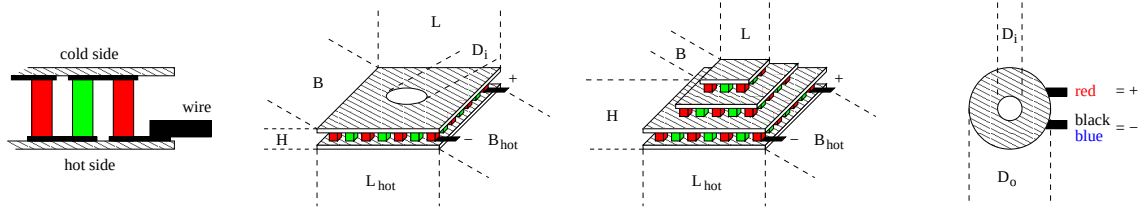


TEC1H-40-40-211/78

industrial high power peltier element



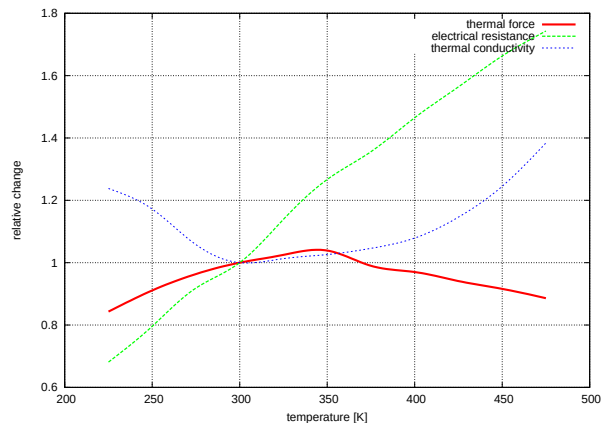
thermal and electrical data:

thermal force:

resistance:

thermal conductivity:

α_{300K}	0.0823	$\frac{V}{K}$
ρ_{300K}	1.67	Ω
γ_{300K}	1.56	$\frac{W}{K}$



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

mechanical data:

size of cold side:	$L \times B \times H$	$40.0 \times 40.0 \times 3.20 \text{ mm}$
size of hot side:	$L_{hot} \times B_{hot}$	$40.0 \times 40.0 \text{ mm}$
height tolerance:	ΔH	$\pm 0.25 \text{ mm}$
length and width tolerances:	ΔL and ΔB	$+0.5 / - 0.2 \text{ mm}$
weight:	m	24 g
ceramic plates:		BK-100 (grey), BK-96 (white) or AlN (opaque)

location of production: Russia

experimental data:

typical values at:

		$T_h = 50^\circ\text{C}$:	$T_h = 300 \text{ K}$:
maximum cooling power:	Q_{max}	211.1 W	181.9 W
	at $\Delta T = 0$ and $I_{Q_{max}}$	15.9 A	14.7 A
maximum temperature difference:	ΔT_{max}	77.8 K	69.0 K
	at $Q = 0$ and $I_{\Delta T_{max}}$	12.1 A	11.3 A
	U_{max}	26.6 V	24.7 V

order information:

TEC1H-40-40-211/78-B: max. 80°C
 TEC1H-40-40-211/78-C: max. 120°C
 TEC1H-40-40-211/78-D: max. 150°C
 TEC1H-40-40-211/78-G: max. 200°C

TEC1H-40-40-211/78-BS: sealed, max. 80°C
 TEC1H-40-40-211/78-CS: sealed, max. 120°C
 TEC1H-40-40-211/78-DS: sealed, max. 150°C
 TEC1H-40-40-211/78-GS: sealed, max. 200°C