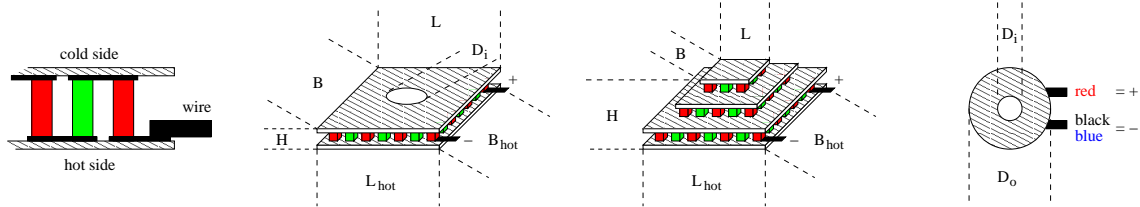


TEC1H-40-40-98/80

industrial high power peltier element



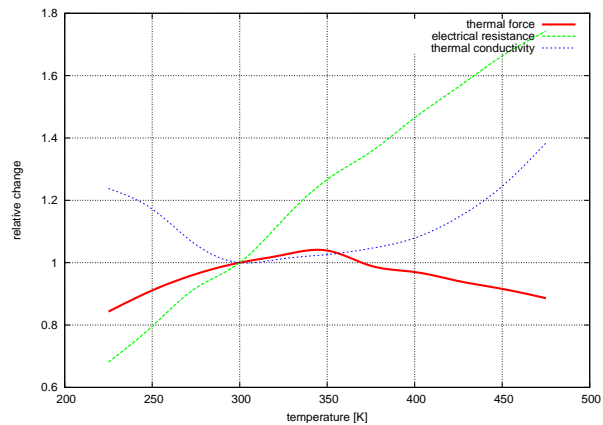
thermal and electrical data:

thermal force:

resistance:

thermal conductivity:

α_{300K}	0.0538	$\frac{V}{K}$
ρ_{300K}	1.54	Ω
γ_{300K}	0.696	$\frac{W}{K}$



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 × 40.0 × 3.40 mm

size of hot side:

$L_{hot} \times B_{hot}$ 40.0 × 40.0 mm

height tolerance:

ΔH ± 0.25 mm

length and width tolerances:

ΔL and ΔB +0.5/ - 0.2 mm

weight:

m 26 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}	98.5 W	84.9 W
	at $\Delta T = 0$ and $I_{Q_{max}}$	11.3 A	10.5 A
maximum temperature difference:	ΔT_{max}	80.0 K	71.0 K
	at $Q = 0$ and $I_{\Delta T_{max}}$	8.5 A	8.0 A
	U_{max}	17.4 V	16.1 V

order information:

TEC1H-40-40-98/80-B: max. 80°C
 TEC1H-40-40-98/80-C: max. 120°C
 TEC1H-40-40-98/80-D: max. 150°C
 TEC1H-40-40-98/80-G: max. 200°C

TEC1H-40-40-98/80-BS: sealed, max. 80°C
 TEC1H-40-40-98/80-CS: sealed, max. 120°C
 TEC1H-40-40-98/80-DS: sealed, max. 150°C
 TEC1H-40-40-98/80-GS: sealed, max. 200°C