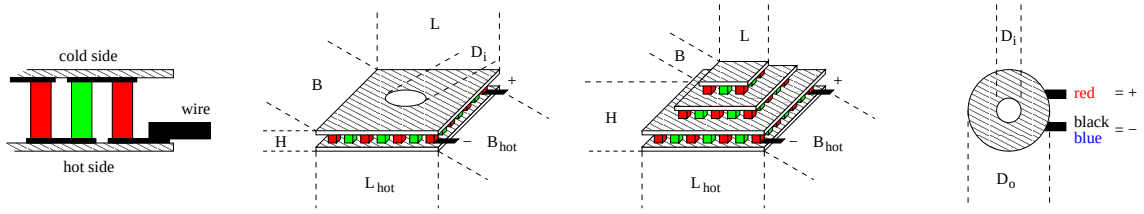
EURECA Messtechnik GmbH

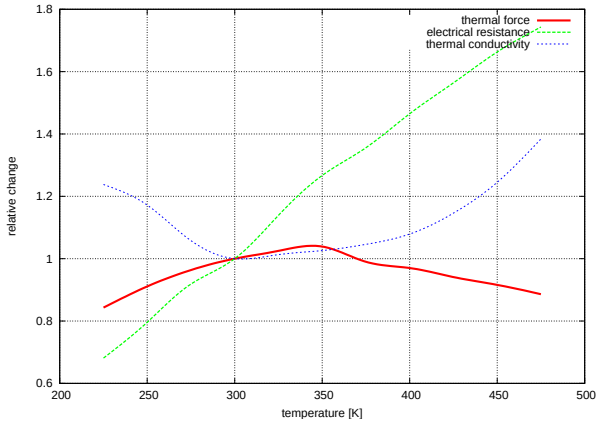
TEC2S-30-30-103/68

professional standard peltier element



thermal and electrical data:

thermal force:	α_{300K}	0.0297	$\frac{V}{K}$
resistance:	ρ_{300K}	0.448	Ω
thermal conductivity:	γ_{300K}	0.940	$\frac{W}{K}$



available maximum operating temperatures:	T_{max}	$125, 150, 200, 250\ ^\circ C$
tolerances:		$\pm 15\,\%$

mechanical data:

size of cold side:	$L \times B \times H$	$30.0 \times 30.0 \times 3.00\,mm$
size of hot side:	$L_{hot} \times B_{hot}$	$30.0 \times 30.0\,mm$
height tolerance:	ΔH	$\pm 0.5\,mm$
length and width tolerances:	ΔL and ΔB	$\pm 1.0\,mm$
weight:	m	$13\,g$
ceramic plates:		BK-100 (grey), BK-96 (white) or AlN (opaque)

location of production: China

experimental data:

typical values at:		$T_h = 50\,^\circ C$:	$T_h = 300\,K$:
maximum cooling power:	Q_{max}	$102.6\,W$	$88.4\,W$
at $\Delta T = 0$ and	$I_{Q_{max}}$	$21.4\,A$	$19.9\,A$
maximum temperature difference:	ΔT_{max}	$68.0\,K$	$60.1\,K$
at $Q = 0$ and	$I_{\Delta T_{max}}$	$16.9\,A$	$15.9\,A$
	U_{max}	$9.6\,V$	$8.9\,V$

order information:

TEC2S-30-30-103/68-CS: sealed, max. $125^\circ C$
TEC2S-30-30-103/68-DS: sealed, max. $150^\circ C$
TEC2S-30-30-103/68-FS: sealed, max. $200^\circ C$
TEC2S-30-30-103/68-HS: sealed, max. $250^\circ C$