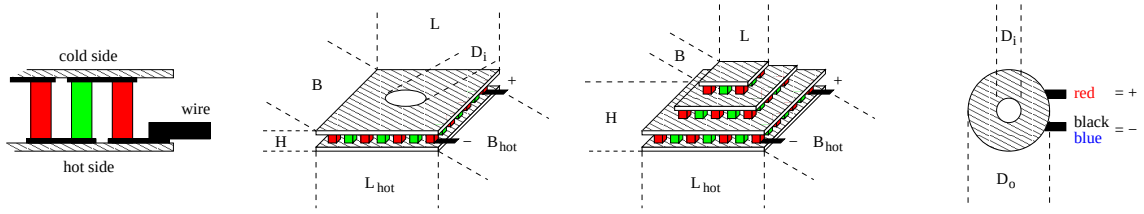
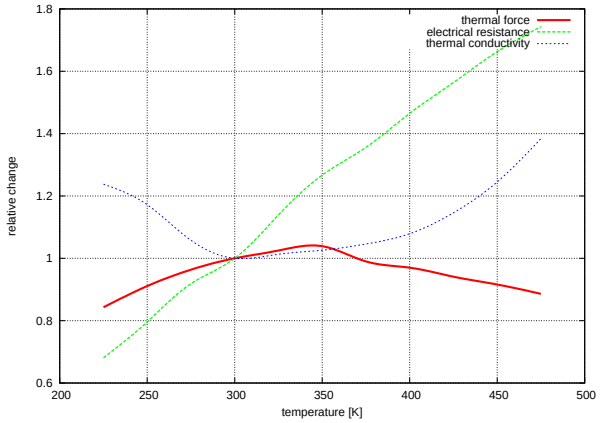
TEC2S-15-20-16/74

professional standard peltier element



thermal and electrical data:

thermal force:	α_{300K}	0.00980	$\frac{V}{K}$
resistance:	ρ_{300K}	0.309	Ω
thermal conductivity:	γ_{300K}	0.131	$\frac{W}{K}$



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

mechanical data:

size of cold side:	$L \times B \times H$	$15.0 \times 20.0 \times 3.60\,mm$
size of hot side:	$L_{hot} \times B_{hot}$	$15.0 \times 20.0\,mm$
height tolerance:	ΔH	$\pm 0.5\,mm$
length and width tolerances:	ΔL and ΔB	$\pm 1.0\,mm$
weight:	m	$5\,g$
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}	$16.2\,W$	$14.0\,W$
at $\Delta T = 0$ and	$I_{Q_{max}}$	$10.2\,A$	$9.5\,A$
maximum temperature difference:	ΔT_{max}	$73.6\,K$	$65.2\,K$
at $Q = 0$ and	$I_{\Delta T_{max}}$	$7.9\,A$	$7.4\,A$
	U_{max}	$3.2\,V$	$2.9\,V$

order information:

TEC2S-15-20-16/74-CS: sealed, max. $125^\circ C$
TEC2S-15-20-16/74-DS: sealed, max. $150^\circ C$
TEC2S-15-20-16/74-HS: sealed, max. $200^\circ C$