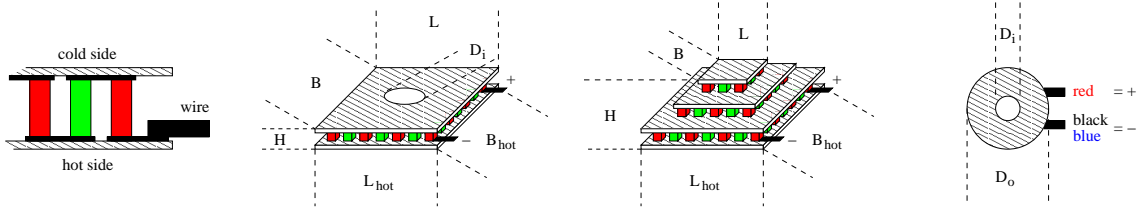


## industrial micro peltier element



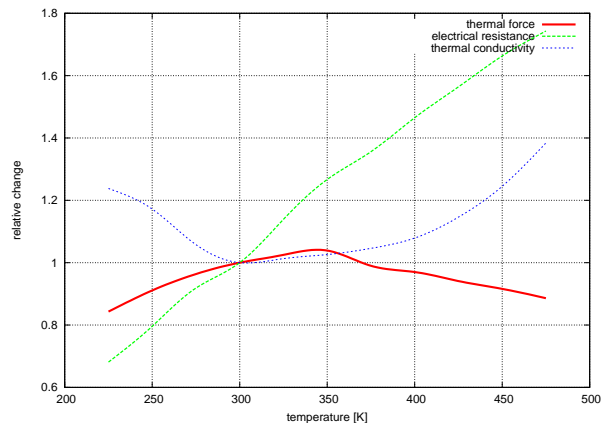
### thermal and electrical data:

thermal force:

resistance:

thermal conductivity:

$\alpha_{300K}$	0.00695	$\frac{V}{K}$
$\rho_{300K}$	0.247	$\Omega$
$\gamma_{300K}$	0.0776	$\frac{W}{K}$



available maximum operating temperatures:  $T_{max}$  80, 120, 150(non-ROHS!), 225 °C  
 typical tolerances: ±5%

### mechanical data:

size of cold side:

size of hot side:

height tolerance:

length and width tolerances:

weight:

ceramic plates:

$L \times B \times H$	8.0 × 8.0 × 2.50 mm
$L_{hot} \times B_{hot}$	8.0 × 8.0 mm
$\Delta H$	±0.25 mm
$\Delta L$ and $\Delta B$	+0.5/ - 0.2 mm
$m$	1 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:	$Q_{max}$	10.2 W	8.8 W
	at $\Delta T = 0$ and $I_{Q_{max}}$	9.1 A	8.5 A
maximum temperature difference:	$\Delta T_{max}$	76.7 K	68.0 K
	at $Q = 0$ and $I_{\Delta T_{max}}$	7.0 A	6.5 A
	$U_{max}$	2.2 V	2.1 V

### order information:

TEC1M-8.0-8.0-10/77-B:	max. 80°C
TEC1M-8.0-8.0-10/77-C:	max. 120°C
TEC1M-8.0-8.0-10/77-D:	max. 150°C
TEC1M-8.0-8.0-10/77-G:	max. 225°C