

# Thermoelectric module TMG-450-0.8-1.0

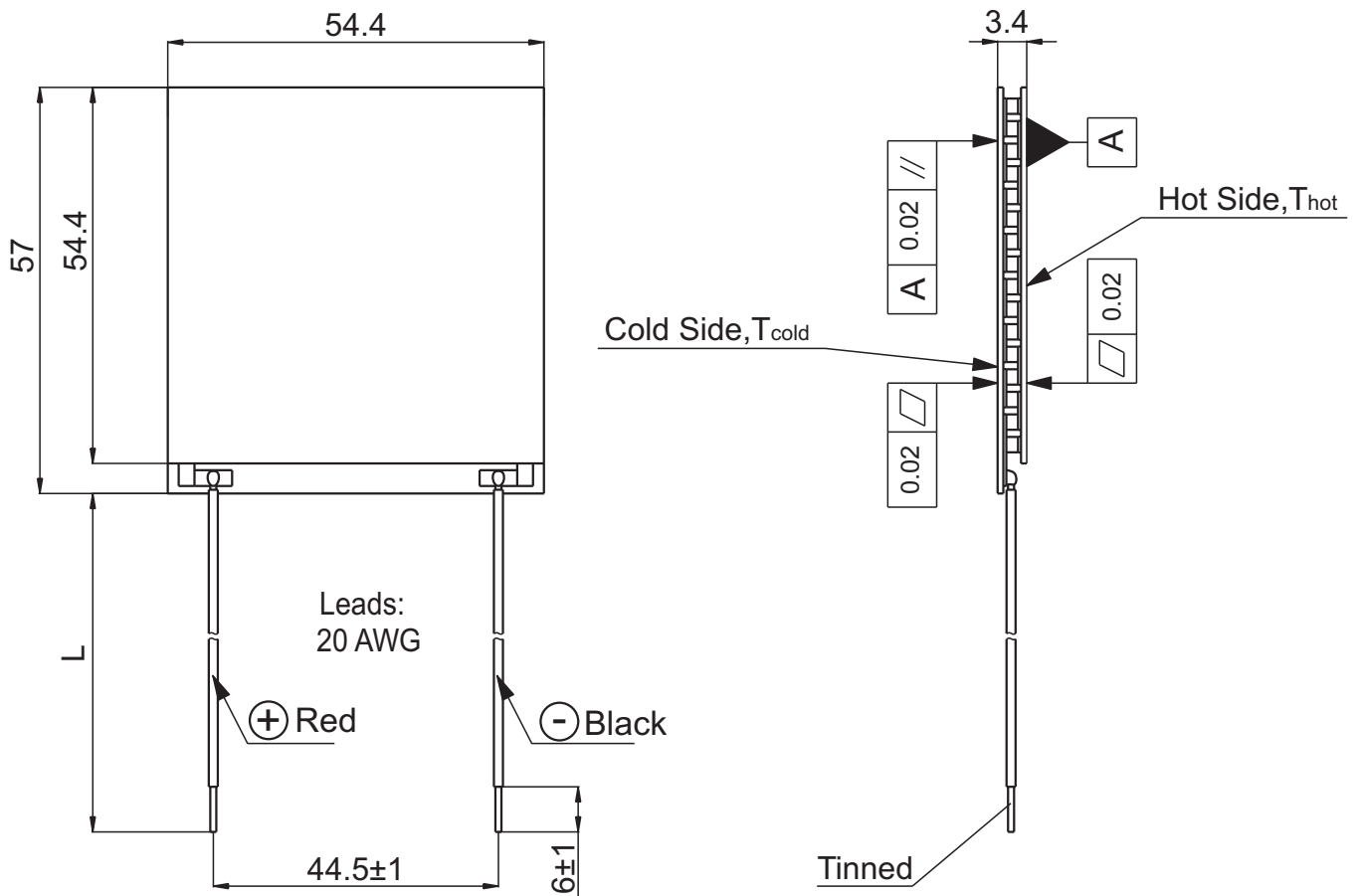


## Performance Data

$V_{OC}, V$	23.4	$T_{hot}=+175^{\circ}C, T_{cold}=+50^{\circ}C$
$V_{load}, V$	11.7	
$R_{load}, Ohm$	20.0	
$W_{load}, W$	6.8	
$R_{in}, Ohm$	20.0	
Module AC resistance, Ohm	10.8	$25 \pm 0.5^{\circ}C$

Tolerances for thermal and electrical parameters  $\pm 10\%$

Dimensions in millimeters



L - upon customer request

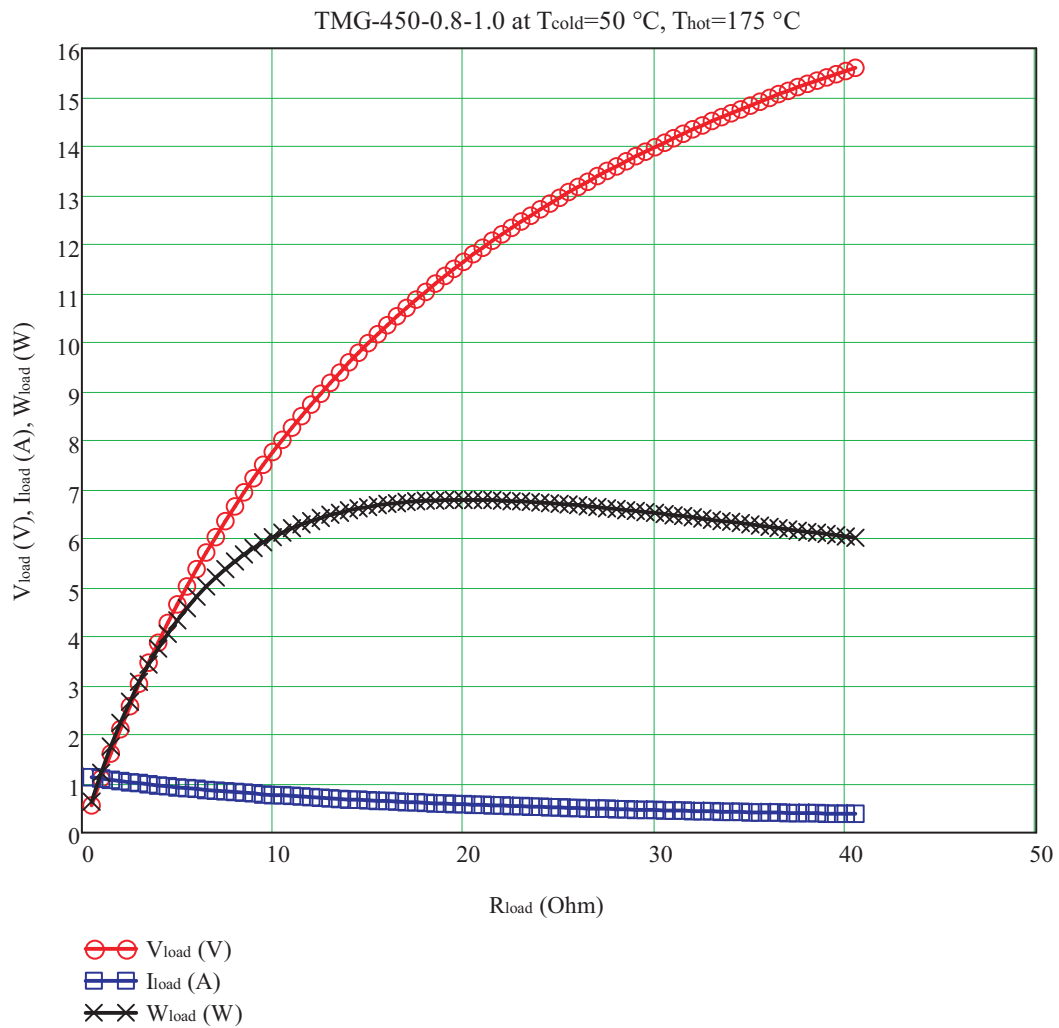
## Options

Lead wire insulation	Maximum processing temperature
Silicone	180°C
PTFE	200°C

## Additional

- RoHS 2002/95/EC compliant
- Cold Side and Hot Side Ceramics:  $Al_2O_3$ , white 96%
- Assembling Solder : SnSb , M. P. 232 °C ; SnCu , M.P. 227 °C

## TMG-450-0.8-1.0 power generating TE module



0.93 W / $^{\circ}\text{C}$  is a thermal conductance of the module at  $T_{\text{cold}}=50\text{ }^{\circ}\text{C}$  and  $T_{\text{hot}}=175\text{ }^{\circ}\text{C}$   
 $V_{\text{oc}} = 23.4\text{ V}$  is an open circuit voltage,  
 $R_{\text{load}}$  is a load resistance, Ohm,  
 $W_{\text{load}}$  is an output power corresponded to load resistance  $R_{\text{load}}$ , W,  
 $V_{\text{load}}$  is an output voltage, corresponded to  $R_{\text{load}}$ , V.