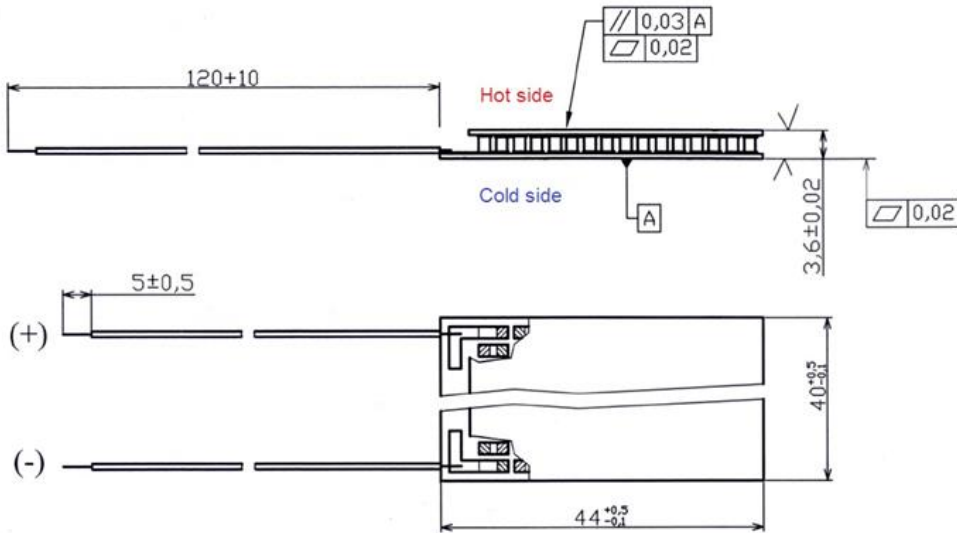


# MTG 2-1,15-199 DT2S

Scientific & Production Firm "MODUL" (Thermoelectric modules & Thermoelectric semiconductor materials)  
 63, Chervonotkatska Str., 02094, Kyiv, Ukraine  
 Tel: +380-44-593-87-40, +380-44-593-87-43, Fax: +380-44-593-87-46  
 E-mail: [Modul@modulua.kiev.ua](mailto:Modul@modulua.kiev.ua) [http:// www.spf-modul.com](http://www.spf-modul.com)

## Geometric properties



## Thermoelectric properties

Thermoelectric parameter	Value		
Hot side temperature, C	100	150	200
Cold side temperature, C	50	50	50
Open circuit voltage, V	3.4	6.8	10.1
Short circuit current, A	1.5	2.6	3.5
Optimum load resistance, Ohm	2.3	2.6	2.9
Optimum load current, A	0.7	1.3	1.8
Optimum power, W	1.3	4.4	8.8
Optimum Efficiency, η, %	1.7	3.2	4.3

## Tolerances for thermal and electrical parameters ± 10%

Performance information is given for modules with average parameters. Performance of thermoelectric generator module could depend on the force of mounting and used thermal greases. Hot side and cold side temperatures are the temperatures of top of the hot side and cold side ceramic plates.

Installation notes. Recommended mounting pressure is 10 kg/cm<sup>2</sup>.

For maximum reliability, long term operation at the hot side temperature 180°C is recommended. Short term operation up to 200°C. Operation at temperature over 200°C is not allowed.

## General properties

$R_{ac}$  (27°C): 1.48...1.80 Ω  
 Usage temperature: up to 200°C

Module size, mm: 40 x 44 x 3.6  
 Height tolerance: ±0.02 mm  
 Flatness tolerance: 0.02 mm  
 Parallelism: 0.03 mm

Type, insulation and length of the wires to be agreed according to the type and requirements. Thermoelectric module can be sealed by silicon (S) or epoxy (eS) if required. Custom designed modules are available.

