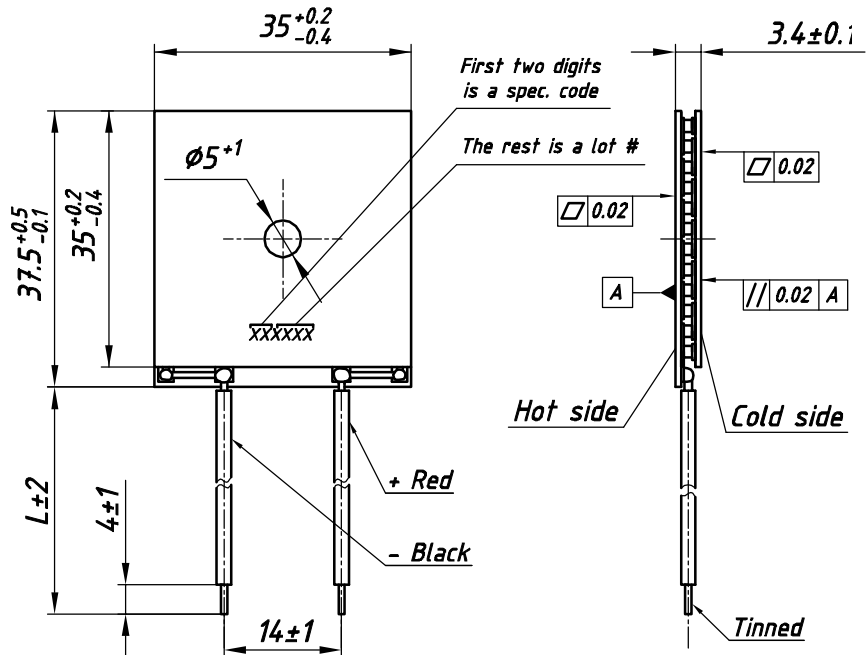


TECHNICAL DATA

| | | |
|--|-------------------------------|---------------------------------|
| U_{max} | 13.9 V | $T_{hot}=25^{\circ}C$ Vacuum |
| Q_{max} | 89.0W | |
| ΔT_{max} | 72° | |
| I_{max} | 11.0 A | |
| ACR at 25°C | 1.13 Ohm | |
| Pad type | Hot side | Ceramics Al_2O_3 , white 96% |
| | Cold side | |
| Max. processing temperature | Depends on chosen solder type | |
| Standard tolerances for thermal and electrical parameters $\pm 10\%$ | | |

MODULE DRAWING
standard design



STANDARD ORDERING OPTIONS

| Nº | Option | Parameter |
|----|-------------------------|--|
| 1 | Lead wires | AWG Nº |
| | | 18 20 22 24 |
| 2 | Lead wires length | L - under customer request |
| 3 | Lead wires insulation | Type / Max. processing temp. |
| | | Without insulation / See solder type m.p.t |
| | | PVC-1 / 85° C |
| | | PVC-2 / 105° C |
| | | Silicone / 180° C |
| 4 | Internal solder | Type / Max. processing temp. |
| | | Type-1 / 138° C |
| | | Type-2 / 183° C * |
| | | Type-3 / 227° C |
| 5 | Anticorrosional coating | yes no |
| | | |
| 6 | Sealing | Type / Max. processing temp. |
| | | Without sealing / 200° C |
| | | Epoxy / 130° C |
| | | Silicone / 180° C |

AVAILABLE MODIFICATIONS

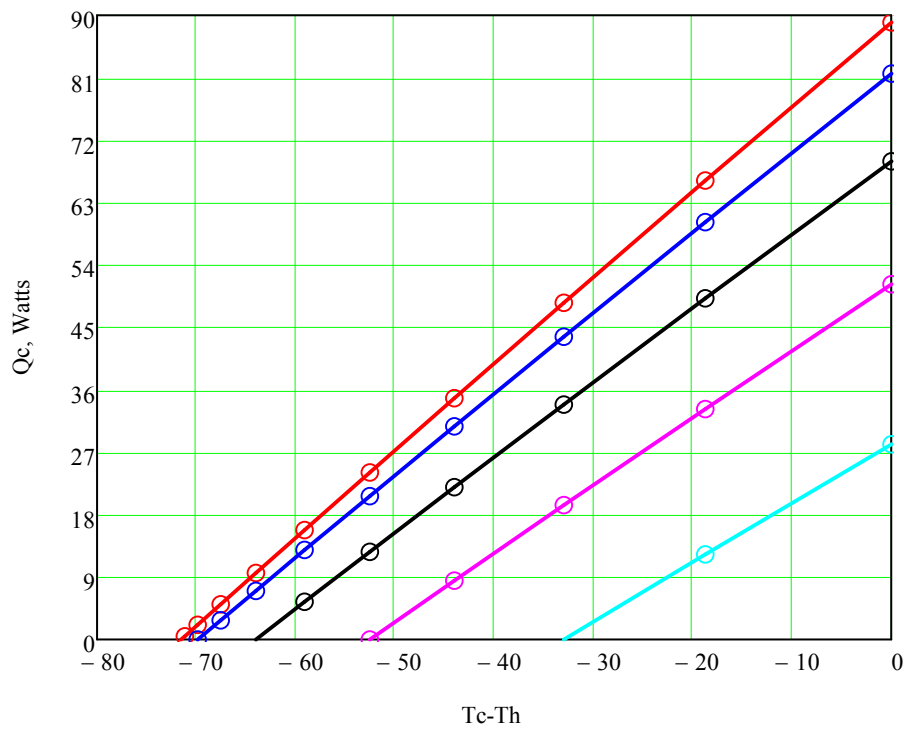
| Design | Description |
|---------------------|--|
| TM-120-1.6-11.0 M | Porch-style design with high reliable version on cold side |
| TMC-120-1.6-11.0 MM | Porch-style design with high reliable version on both sides for thermal cycling applications |

OPTIONS UPON REQUEST

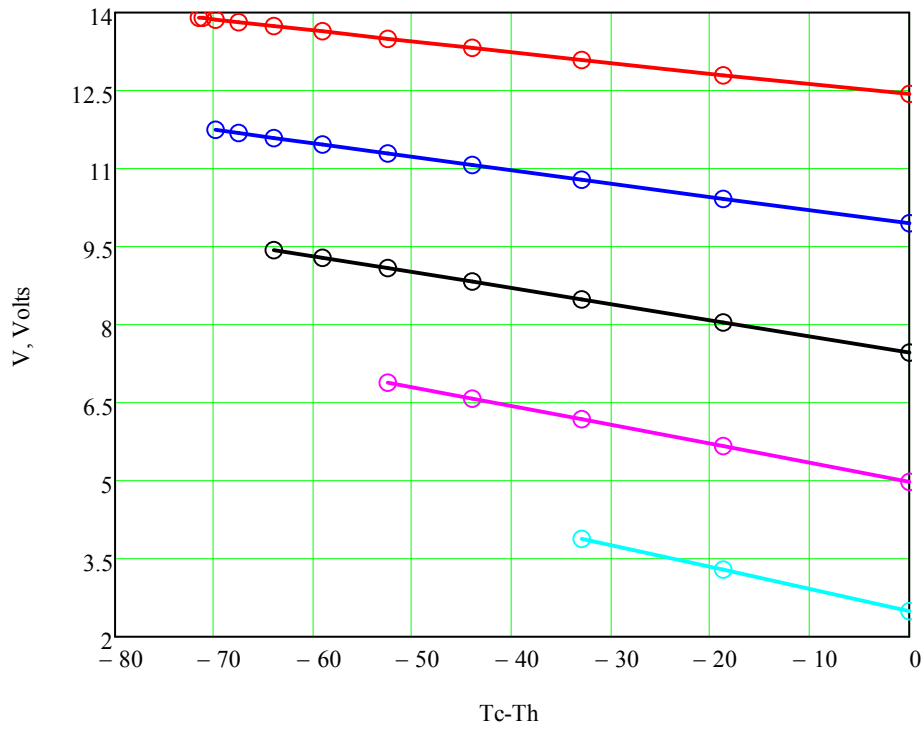
| | |
|-------------------------------|------------|
| Height tolerance | ± 0.02 |
| Unflatness and nonparallelism | ± 0.02 |

- Solder type marked * is not compliant to RoHS (2002/95/EC)
- For another options consult of our technical support engineers

Performance graphs for TM-120-1.6-11 module at $T_h=25\text{ }^\circ\text{C}$
 Environment: vacuum



- $I = I_{max}$
- $I = 0.8I_{max}$
- $I = 0.6I_{max}$
- $I = 0.4I_{max}$
- $I = 0.2I_{max}$



- $I = I_{max}$
- $I = 0.8I_{max}$
- $I = 0.6I_{max}$
- $I = 0.4I_{max}$
- $I = 0.2I_{max}$