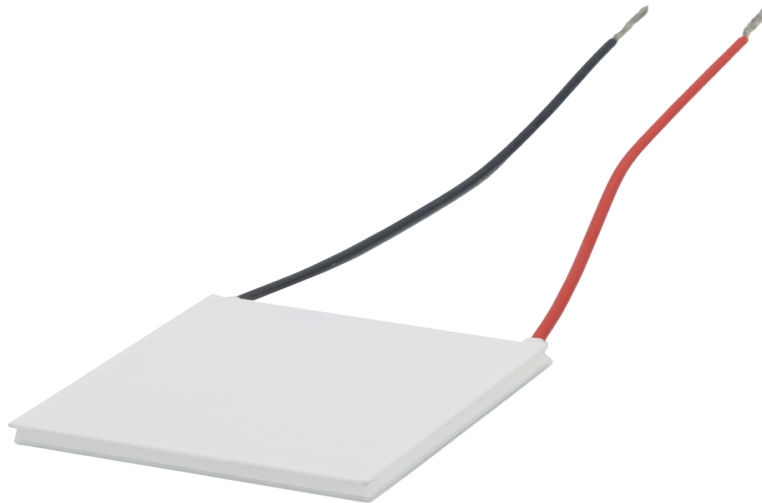



# Testmodul



\*Example image, actual specifications may vary

## FEATURES

 None	 None	 None	 None
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## ADDITIONAL PRODUCT INFORMATION

For additional information about this product, please also visit our Website:



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## Testmodul | 001111

## 1 TECHNICAL SPECIFICATION

## Application Area

This specification is subject to change according to actual conditions.

Performance Parameters		Note
Resistance	10	Determined by an AC four-wire measurement at 25°C
I <sub>max</sub>	10 A	Input current leading to the largest $\Delta T$ ( $\Delta T_{max}$ )
V <sub>max</sub>	0 V	Maximum DC input voltage at $\Delta T_{max}$ and $T_h = 27^\circ\text{C}$
Test Conditions	$T_h = 10^\circ\text{C}$ $T_c = 10^\circ\text{C}$	Temperature of the hot side of the TEC during the testing process
Q <sub>c, max</sub>	10 W @ 27°C 10 W @ 50°C	Maximum amount of heat that can be absorbed on the cold side (@ $\Delta T = 0^\circ\text{C}$ and $I = I_{max}$ )
$\Delta T_{max}$	0 °K @ 27°C 10 °K @ 50°C	Maximum temperature difference that a TEC can achieve (@ $I = I_{max}$ , $Q_c = 0\text{W}$ ) ( $\Delta T_{max}$ is measured in a vacuum of 1.3 Pa)
Melting point of the solder	10 °C	Lowest melting point of the solder used in the thermoelectric module
Compressive Strength	10 MPa	Maximum allowable uniform force on the module
Miscellaneous		Test Sonstiges

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**2 DIMENSIONS**

**TECHNICAL DRAWING**



#	Measurement	Deviation
A	10mm	± 10mm
B	10mm	± 10mm
C	10mm	± 10mm
D	10mm	± 10mm
E	10mm	± 10mm
F	10mm	± 10mm
G	Flatness	± 10mm
H	Parallelism	± 10mm

\* Flatness across the surface of the ceramic

\*\* Parallelism of both ceramic surfaces to each other

**SPECIFICATIONS**

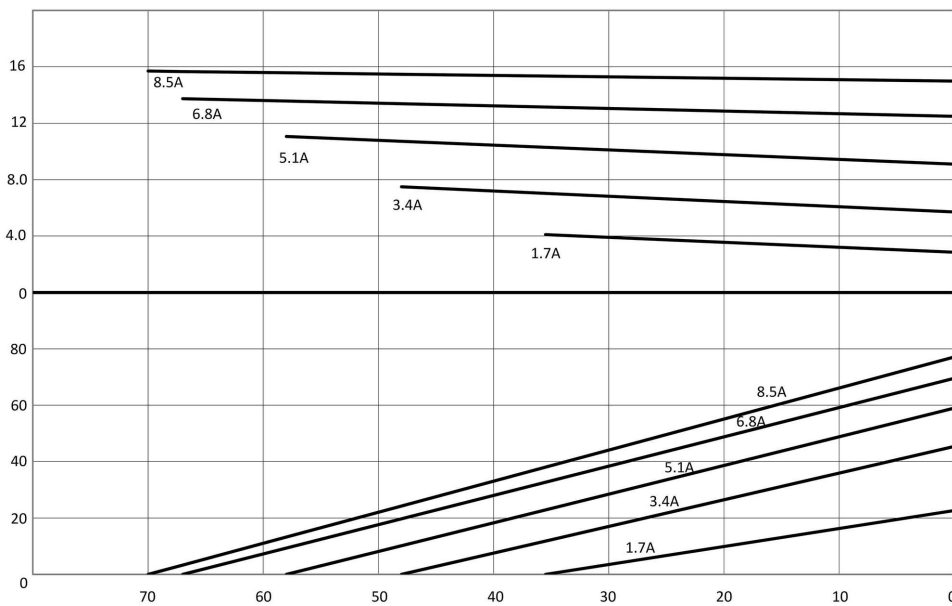
#	Component	Description
1	Ceramic Plate	Al2O3
2	Seal	Keramik
3	Printing	Tesmodul
4	Lead Wire	AG22
5	Wire Connection	Verbinder
6	Miscellaneous	Verbinder

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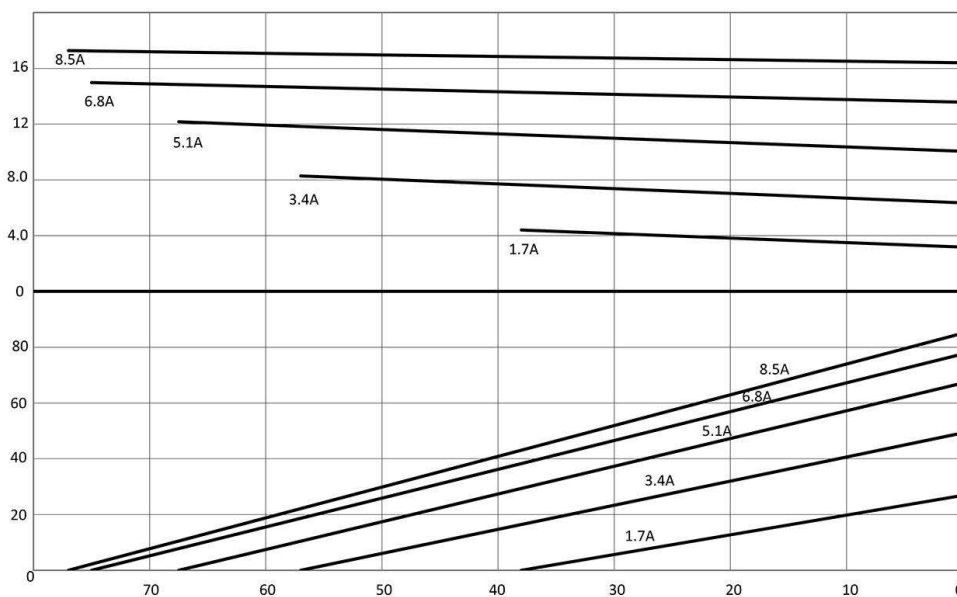
**Testmodul | 001111**

**3 Performance Diagrams**

**Power and Voltage Characteristics at 27°C Hot Side Temperature**



**Power and Voltage Characteristics at 50°C Hot Side Temperature**



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### 4 Certificates and Notices

#### CERTIFICATES



#### NOTICES

Technical changes reserved

Module modifications such as, for example, can be made upon request. the type of sealing (silicone-sealed or unsealed), the lead wire length and material, or the dimensions of the module possible. Please contact us regarding this.

Custom module manufacturing is also possible upon request.  
We are happy to assist you in designing a suitable module for your application.

#### **DR. NEUMANN Peltier- Technik GmbH**

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