

DNPT-11-31-02-03



*Example image, actual specifications may vary

FEATURES



Extremely high cycle stability due to innovative GL-II structure



Optimized thermal separation without sealing material



Highly flexible Silicone wires



Operating temperature range up to 150 °C

ADDITIONAL PRODUCT INFORMATION

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



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1 TECHNICAL SPECIFICATION

Application Area

This specification is subject to change according to actual conditions.

Performance Parameters		Note
Resistance	1,65Ω ± 10% Ω	Determined by an AC four-wire measurement at 25°C
I _{max}	2 A	Input current leading to the largest ΔT (ΔT _{max})
V _{max}	3.8 V	Maximum DC input voltage at ΔT _{max} and T _h = 27°C
Test Conditions	T _h = 0 °C T _h = 0 °C	Temperature of the hot side of the TEC during the testing process
Q _{c, max}	4.4 W @ 27°C 5 W @ 50°C	Maximum amount of heat that can be absorbed on the cold side (@ ΔT = 0°C and I = I _{max})
ΔT _{max}	70 °K @ 27°C 77 °K @ 50°C	Maximum temperature difference that a TEC can achieve (@I = I _{max} , Q _c = 0W) (ΔT _{max} is measured in a vacuum of 1.3 Pa)
Melting point of the solder	235 °C	Lowest melting point of the solder used in the thermoelectric module
Compressive Strength	1 MPa	Maximum allowable uniform force on the module
Miscellaneous		None

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2 DIMENSIONS

TECHNICAL DRAWING



#	Measurement	Deviation
A	15mm	± 0.3mm
B	15mm	± 0.3mm
C	100mm	± 5mm
D	90mm	± None
E	10mm	± 3mm
F	4.7mm	± 0.025mm
G*	4.7mm	± 0.05mm
H**	0mm	± undefined

* Flatness across the surface of the ceramic

** Parallelism of both ceramic surfaces to each other

SPECIFICATIONS

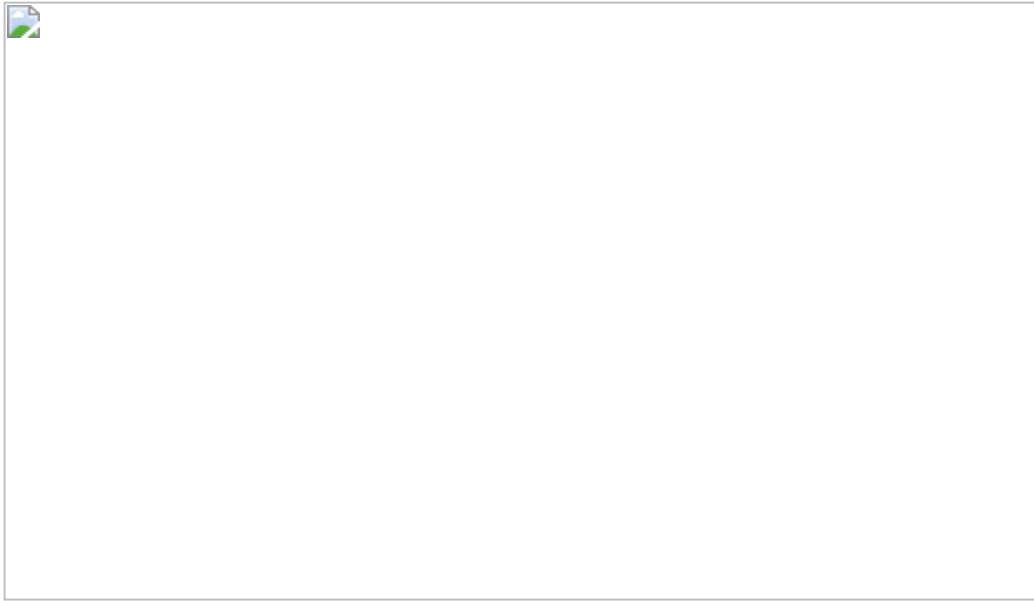
#	Component	Description
1	Ceramic Plate	Al2O3 Aluminium Oxide, White
2	Seal	Unsealed
3	Printing	3102
4	Lead Wire	Silicone
5	Wire Connection	Unsealed
6	Miscellaneous	None

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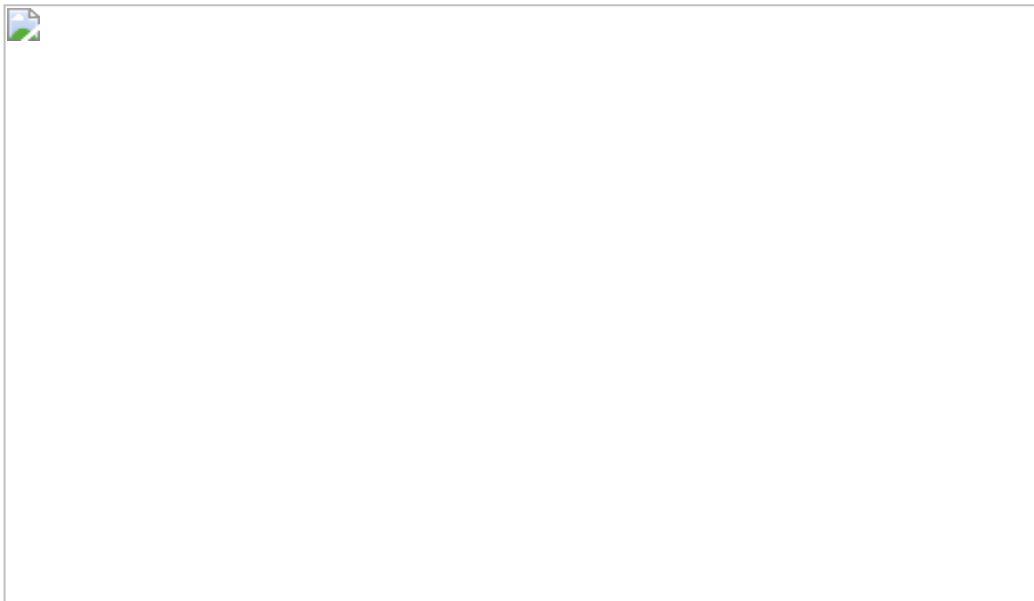
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3 Performance Diagrams

Power and Voltage Characteristics at 27°C Hot Side Temperature



Power and Voltage Characteristics at 50°C Hot Side Temperature



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DNPT-11-31-02-03 | 005465**4 Certificates and Notices****CERTIFICATES**

No certificates available

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.

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