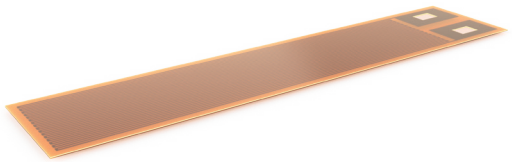
ISABELLENHÜTTE

PRELIMINARY VERSION

HFF

Flexible Heater



FEATURES

- Kapton®-laminated heater structure
- Power density up to 2 W/cm²
- Enhanced Lead-Exit design
- Excellent temperature behavior
- Wire leads acc. to ESCC 3901/012
- Pressure Sensitive Adhesives (PSA), optional
- ESCC Qualification acc. to detail specification 4009/006
- High application temperature range -55 to +150 °C

RoHS

APPLICATIONS

- Thermal management in spacecrafts and extra-terrestrial vehicles

Technical data

Resistance values	**Ohm**	**1 to 2000**
Tolerance	**%**	5 / 10
Temperature coefficient		
-55°C to 22°C	**ppm/K**	-85 ± 85
+22°C to 150°C	**ppm/K**	-40 ± 70
Applicable temperature range	**°C**	-55 to +150
Power density	**W/cm²**	up to 2.0*
Stability (0.38 W/cm², in free air) after 2000 h	**%**	<±4

* standard rated power density is 0.38 W/cm²

Ordering code

HFF - AAABBB - xxxRT - LExx - x - xx - Lxxxx

Lxxxx – Lenghts of the wires in mm, e.g. 1000 for 1000 mm

AWGxx – Conductor cross section of the wires, e.g. AWG26

X – 1 for transfer adhesive, 0 for no transfer adhesive

LExx – Lead-Exit, z.B. LE20 for 20 mm LE-Area

xxxR – Resistance value, e.g. 120R for 120 Ohms
T – Tolerance, e.g. J for 5%

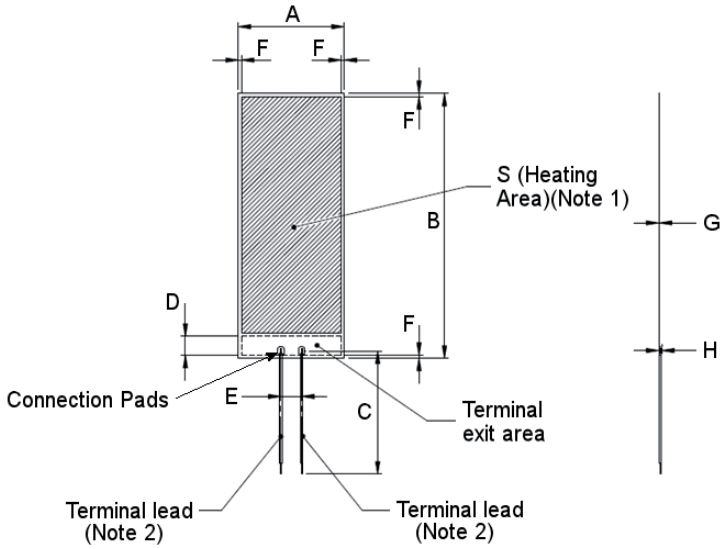
AAA – e.g. for 50 mm
BBB – e.g. for 200 mm

HFF – Heater Foil Flexible

Packaging information

Packaging	Single packaging in PE bag. Outer packaging cardboard box.

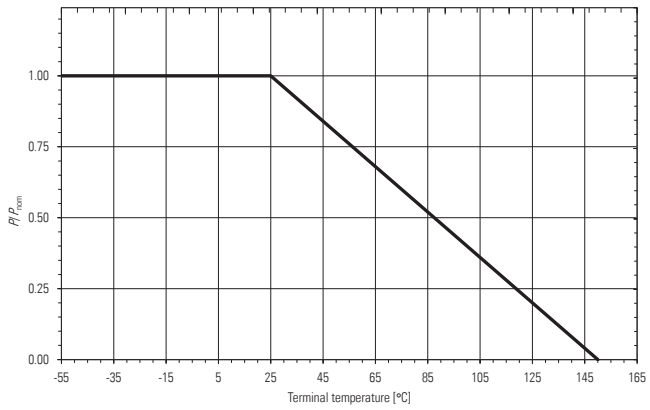
Mechanical dimensions [mm]



Symbol	Dimensions mm		Tolerance	Remarks
	Min	Max		
A	5	265	±2mm	
B	40	385	±2mm	
C	200	-	±10mm	
D	8	30	-	
E	3	-	-	Note 3
F	0.6	-	-	Notes 4, 5
G	-	0.25	-	Note 6
H	-	4	-	Note 7

Note: Datecode is printed in area D. Alternatively marked with a label.

Power derating curve



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