

# UCS HSP 50-25 AL - Heat expansion element



1481703

<https://www.phoenixcontact.com/us/products/1481703>

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Heat expansion element for housing series: UCS, type: Heat expansion element, material: Aluminum, anodized, width: 67 mm, Additional machining is required to attach the heat expansion element to the heatsink.

## Your advantages

- Heatsink solutions enable devices to be used in thermally demanding applications
- Optimal thermal path for reliable heat dissipation
- Custom-tailored to various hot spots
- Heatsink solutions can be used in a variety of housing sizes
- Made-to-fit system solutions with mounting materials

## Commercial data

Item number	1481703
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AC03
Product key	ACFCAG
GTIN	4063151900199
Weight per piece (including packing)	185.5 g
Weight per piece (excluding packing)	171 g
Customs tariff number	76169990
Country of origin	CN

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## Technical data

### Notes

Assembly note	Additional machining is required to attach the heat expansion element to the heatsink.
General	Please observe the application note in the download area.
General	Individual milling possible.
Order information:	Mounting screws are supplied as standard.
Recommendation	Further information and detailed dimensions are available in the download area.
General	We recommend the use of an application-specific TIM material (Thermal Interface Material).

### Product properties

Product type	Heatsink
Housing type	Heatsink
Housing type	Universal housings
Housing series	UCS

### Dimensions

Width	67 mm
Depth	25 mm
Length	50 mm

### Material specifications

Color (Housing)	aluminum color
Material	Aluminum
Surface characteristics	anodized

### Environmental and real-life conditions

#### Vibration test

Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.15 mm (10 Hz ... 58.1 Hz)
Acceleration	2g (58.1 Hz ... 150 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis

#### Shocks

Specification	IEC 60068-2-27:2008-02
Pulse shape	Semi-sinusoidal
Acceleration	15g
Shock duration	11 ms

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Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)

## Test for substances that would hinder coating with paint or varnish

Specification	VDMA 24364:2018-05
Result	Test passed

## Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 55 °C
Ambient temperature (assembly)	-5 °C ... 100 °C

## Mounting

Mounting type	Screw mounting
Mounting position	any
Tightening torque / speed	Screw connection to the heatsink: 0.8 Nm-1 Nm / 500 rpm-1000 rpm

## Packaging specifications

Type of packaging	Box packaging
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## Classifications

### ECLASS

ECLASS-15.0	27260501
ECLASS-13.0	27260501

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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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