

UCS HSP 50-25 AL - Heat expansion element



1481703

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

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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

UCS HSP 50-25 AL - Heat expansion element



1481703

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

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

UCS HSP 50-25 AL - Heat expansion element



1481703

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

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
Tightening torque	0.8 Nm ... 1 Nm

Packaging specifications

Type of packaging	Box packaging
-------------------	---------------

UCS HSP 50-25 AL - Heat expansion element



1481703

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

Classifications

ECLASS

ECLASS-15.0	27260501
ECLASS-13.0	27260501

UCS HSP 50-25 AL - Heat expansion element



1481703

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

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
---	--------------------

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%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com