

Universal Heat Sink for AMP-L Amplifier Modules

Features

- compact and rugged design
- suitable for all AMP-L modules
- holes for mounting in housings
- intended for passive and active cooling with fans

Applications

- test setup evaluation
- amplifier evaluation
- laboratory applications
- TX amplifiers
- jammers
- base stations



application example

At a Glance

Universal heat sink UHS-1 is a compact heat sink for cooling of medium and high-power amplifier modules from of Becker Nachrichtentechnik.

Up to two different AMP-L modules can be flexibly attached to the flat side of the heat sink. With the option of installing up to six fans, high cooling performance can be achieved. If active cooling is required for the customer application, the cooler will be delivered with pre-installed fans. The heatsink is also supplied individually prepared with captive screws depending on customer requirements. On the bottom side is has holes for mounting in housings by the customer.

With most AMP modules from Becker Nachrichtentechnik, the speed of the fan is controlled via the temperature of the amplifier. This gives the cooling structure a very stable temperature condition.

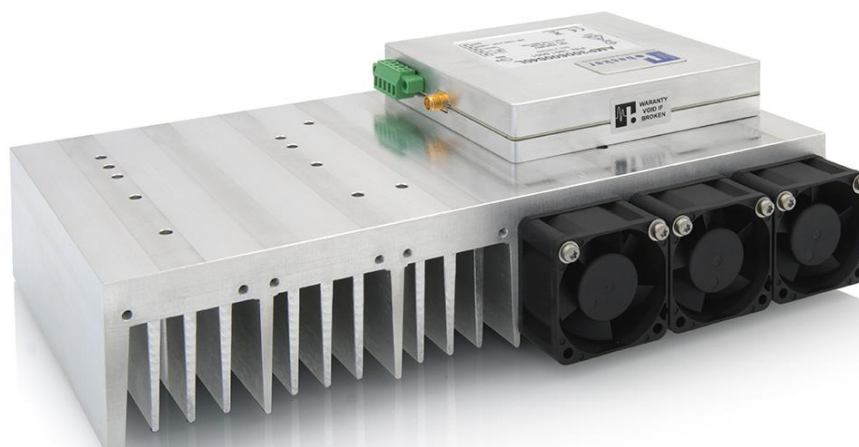
The universal heatsink is made of natural finished aluminum and has a low thermal resistance of approx. 0.4 K/W (passively cooled).

Specification

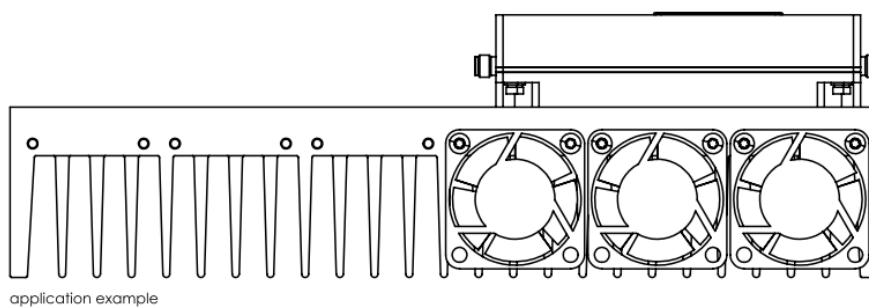
| Parameter | Symbol | Min. | Typ. | Max. | Unit | |
|--------------------|------------|------------------------|------|-------------|---------------------|---------------------------|
| thermal resistance | R_{TH-P} | | 0.4 | | K/W | passively cooled |
| | R_{TH-A} | | 0.2 | | K/W | actively cooled with fans |
| dimensions | W x H x D | approx. 250 x 49 x 120 | | | mm | |
| weight | m | | 2.0 | | kg | |
| | UHS-1 | | | 2200.550M.1 | Universal Heat Sink | |

Appearances

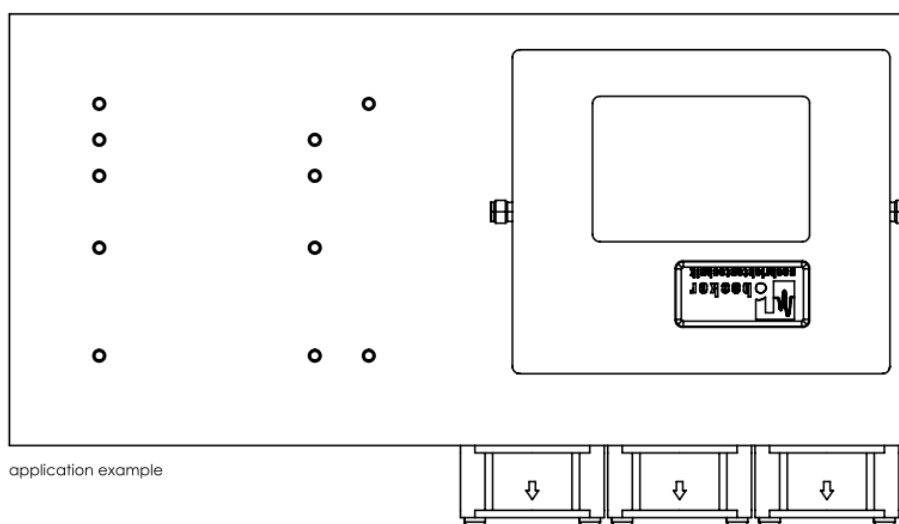
Application example: Universal Heat Sink with fans and one mounted amplifier module



Perspective view



Side view



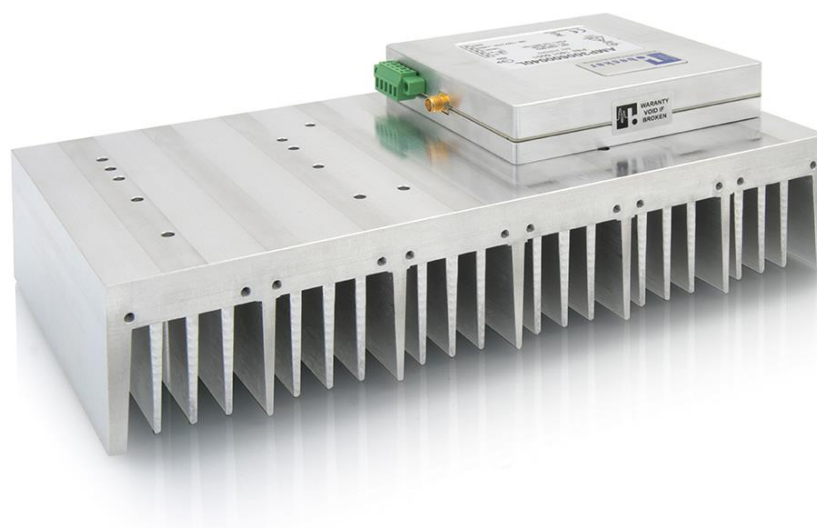
Top view

Application example: Universal Heat Sink with fans and two mounted amplifier modules



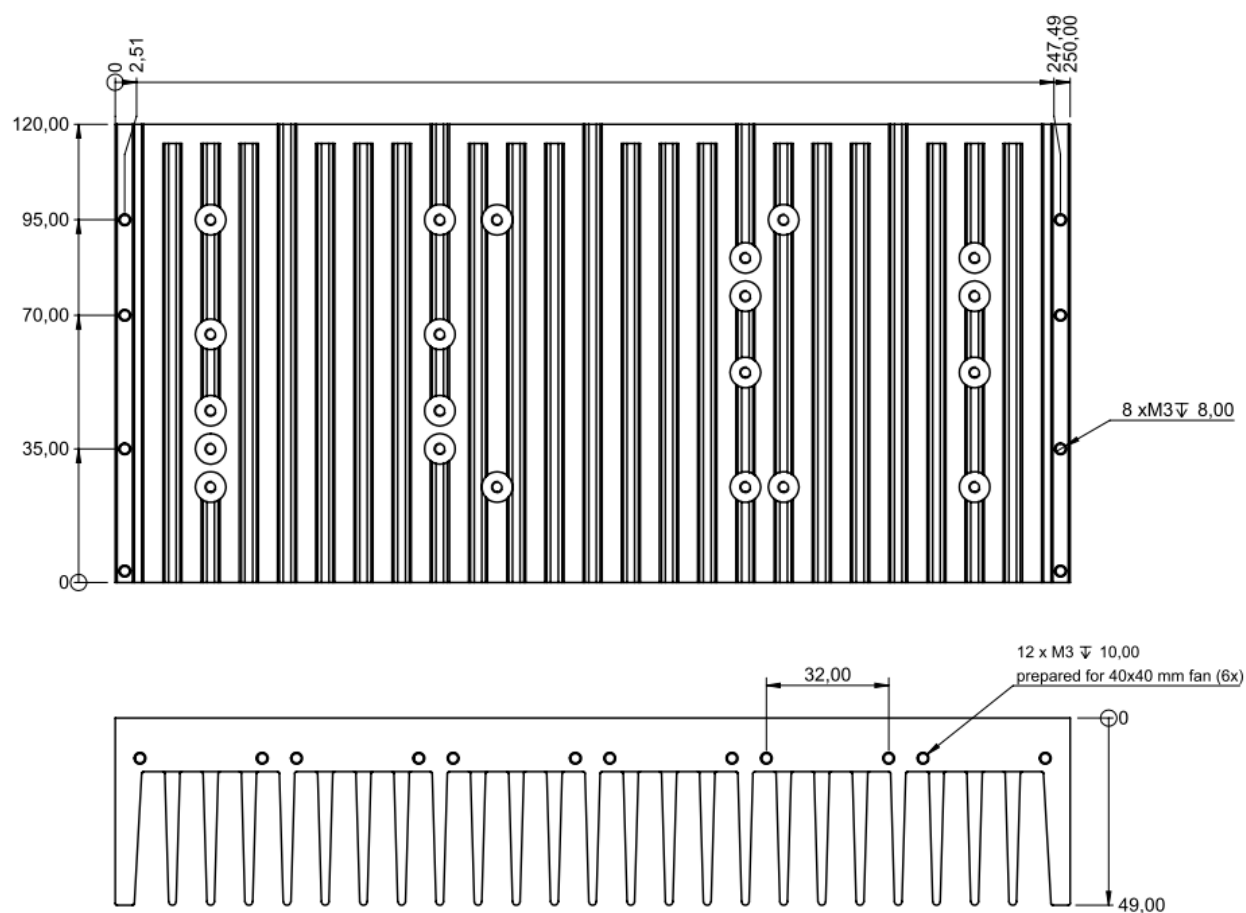
Perspective view

Application example: Universal Heat Sink passively cooled with one amplifier module

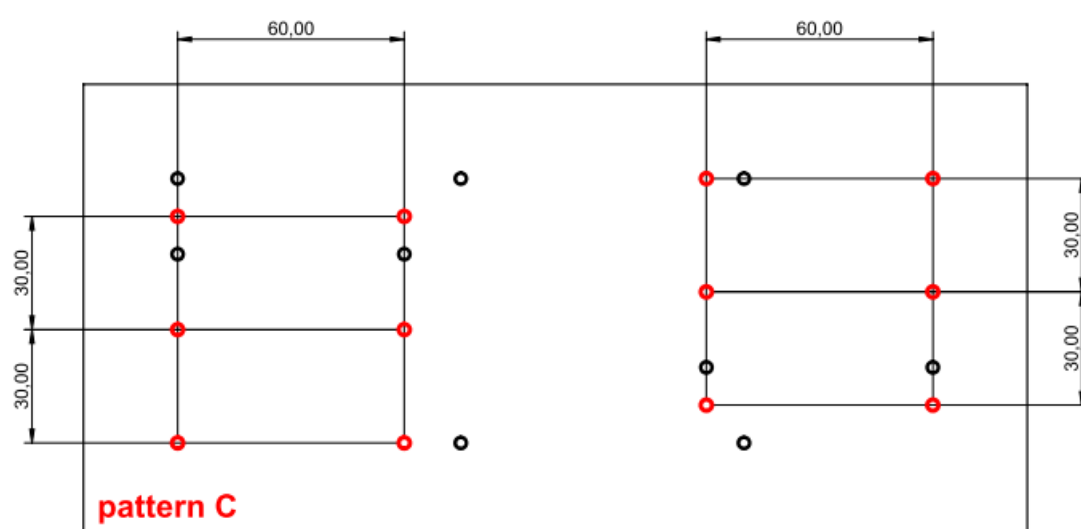
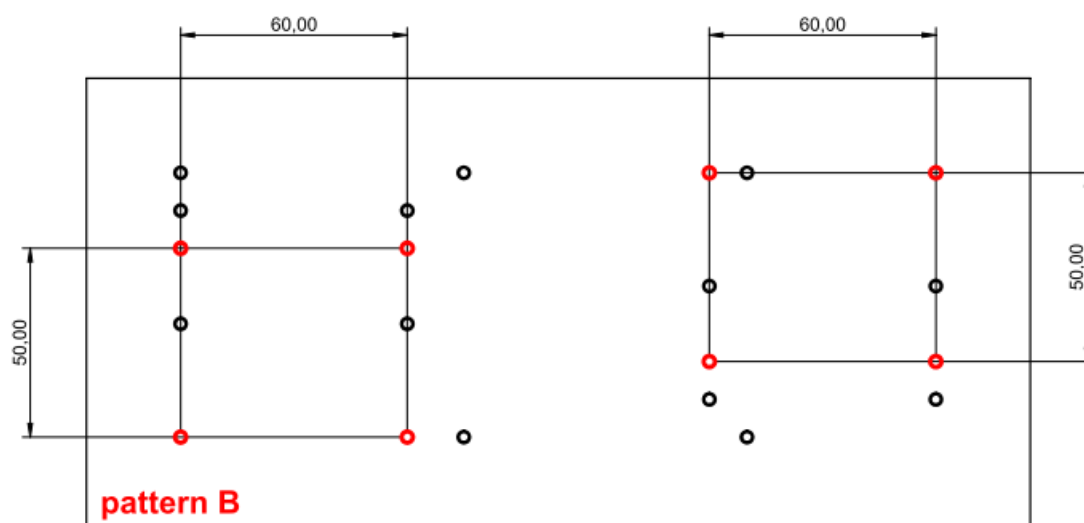
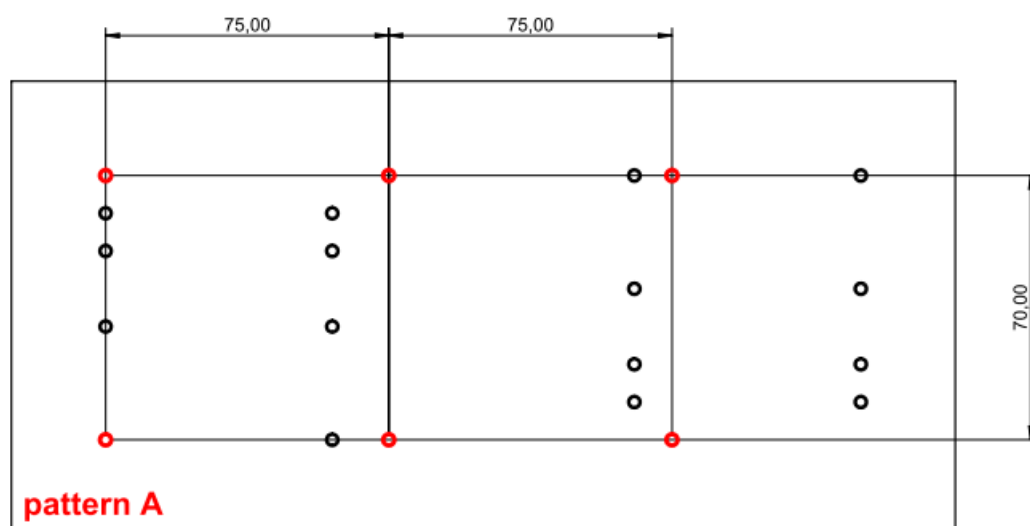


Perspective view

Dimensions



Mounting Patterns



all dimensions in mm
± 0,2 mm

Related Products (mountable on Universal heat Sink)

| Product | Description | P/N |
|-----------------|--|-------------|
| AMP7610849L | 80 W FM Linear Power Amplifier Module, 76...108 MHz <i>Mounting pattern C</i> | 2104.5001.3 |
| AMP17024048L | 60 W DAB Linear Power Amplifier Module, 170...240 MHz <i>Mounting pattern C</i> | 2104.5001.4 |
| AMP1053045 | 30 W Linear Power Amplifier Module, 10...530 MHz <i>only single channel use, Mounting pattern B</i> | 1908.5001.1 |
| AMP300600040L | 10 W Power Amplifier Module, 300...6000 MHz <i>Mounting pattern A</i> | 1801.5001.1 |
| AMP17001300038L | 6 W Power Amplifier Module, 1700...13000 MHz <i>Mounting pattern A</i> | 2004.5011.1 |