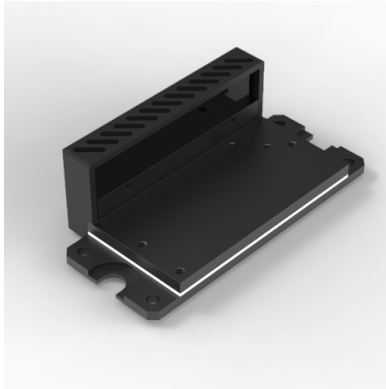




PART NUMBER AM-H11  
 ITEM NAME COMPACT TEC-COOLED MOUNTING PLATE FOR MATCHBOX

## PRODUCT DATASHEET



### DESCRIPTION

OEM customer-based, high-end compact stand-alone TEC cooling mounting plate for MatchBox®. This is the most suitable option for those, who need high laser beam stability and can't use fan-based heatsinks. Given that the TEC cooling plate does not have active cooling to dissipate the heat that TEC produces, mounting on a good heat dissipating surface is mandatory.

This cooler is an essential accessory for all SLM, DPSS, Combiners, and pulsed lasers!

#### Features:

- Standalone so the heatsink does not need to communicate with a laser
- Compact size
- No built-in fan, so the laser will not experience any fan caused vibrations
- Peltier element ensures constant and stable laser body temperature
- Elevates the laser output by 8 mm
- Three heat dissipation power levels depending on voltage and current input

AM-H11 is not suitable for AM-B5 and AM-B7 shutters. Also, Break-out-Boxes can't provide input power to the adapter plate due to low output current.

*A thermal film (or thermal grease) must be applied to the bottom part of our lasers ! We recommend mounting adapter to an aluminum breadboard. Steel breadboards have poor heat conductivity.*

Note: This accessory only includes a compact TEC-based heatsink and data cable (USB-micro).

## SPECIFICATIONS

Specifications updated: 25 November 2024

Parameter	Minimum Value	Typical Value	Maximum Value
Dimensions (WxDxH), mm	-	40x80x25	-
Beam height from the base, mm	-	18.4	-
Body material	-	Aluminium	-
Input voltage, VDC	6	- <sup>1</sup>	12
Input current, A	1.2	2.2	3.4
Power input connector	-	DC jack / flying leads <sup>2</sup>	-
Data connector	-	USB-micro	-
Mounting holes	-	M3 or M6	-
Mounting bolts length, mm	-	12 or 8	-
Warranty, months	-	14	-
Country of origin	-	Lithuania	-

<sup>1</sup> Supply voltage value is only one. End-user is free to choose the value in the range of 6-12 V. Depending on supply voltage value, cooling power is determined (the more voltage is supplied, the more powerful cooling is). Direct diode lasers do not create a lot of heat, thus 6 V is sufficient for them. On the other hand, diode pumped solid state (DPSS) lasers generate much more heat, so it will require more supply voltage. Voltages outside of this range must not be supplied.

<sup>2</sup> Power input connector can be chosen between flying leads or DC jack. The choice of connector type should be mentioned on your order. A suitable DC-type power supply can be supplied upon request.

Note: Product specifications are subject to change without prior notice to improve reliability, function or design or otherwise.