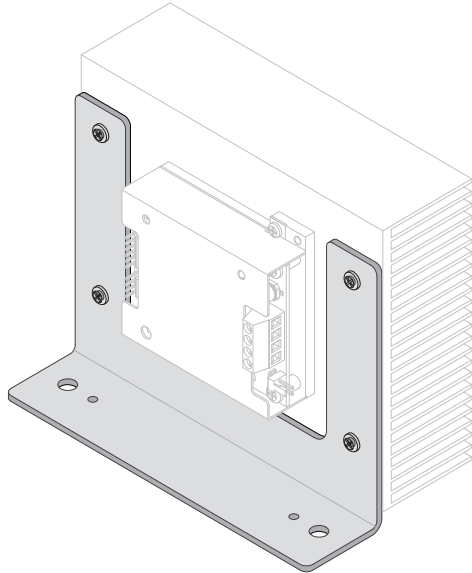# DATASHEET AND OPERATING GUIDE
HEATSINK BRACKET
For MULTI-HTSK and MULTI-HTSK-HI

(MULTI-HTSK and controller are not included)

FEATURES AND BENEFITS
- Convenient and simple design
- Improves airflow to the heatsink
- Helps keep your optical bench organized
- Works with most Wavelength Electronics chassis mounted Laser Diode Drivers and Temperature Controllers

CONVENIENTLY MOUNT HEATSINKS

The heatsink bracket is compatible with both Wavelength Multi-Heatsinks, the MULTI-HTSK and the MULTI-HTSK-HI. These heatsinks are compatible with most Wavelength chassis-mounted temperature controllers and laser drivers. The bracket fits around the module, and the module can be installed without disassembling the bracket assembly.

IMPROVED HEAT DISSIPATION

The bracket mounts the heatsink in a vertical position, freeing space on your optical table. Convection is enhanced with the heatsink mounted vertically, so your Wavelength control module runs cooler at high powers. It's also a lot simpler to force additional airflow over the heatsink with a spare fan so you can use the heatsink to its full-rated capacity.

USED WITH
- MULTI-HTSK Multi-Product Heatsink
- MULTI-HTSK-HI Multi-Product Heatsink for >10 A

CONTENTS

ORDERING INFORMATION

PART NO	DESCRIPTION
HTSK-BRKT	Heatsink Bracket for use with MULTI-HTSK and MULTI-HTSK-HI
MULTI-HTSK	Heatsink for < 10 A operation
MULTI-HTSK-HI	Heatsink for > 10 A operation

RoHS Compliant

406-587-4910
www.teamWavelength.com

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SAFE OPERATING AREA

Some Wavelength modules require heatsinking when operated above a particular power level, and forced airflow over the heatsink may be required at greater powers. The on-line SOA tool will help you to understand when these conditions apply to your situation.

⚠ IT IS IMPERATIVE THAT YOU VERIFY THE UNIT WILL OPERATE WITHIN THE INTERNAL HEAT DISSIPATION SAFE OPERATING AREA (SOA).

OPERATING THE CONTROLLER OUTSIDE THE SOA MAY DAMAGE OR DESTROY THE MODULE AND/OR LOADS.

To determine if the module is suitable for your application, if it will be operating in the safe range, or if forced airflow is required, consult the instructions for calculating the Safe Operating Area on-line at:

Laser Diode Drivers:
http://www.teamwavelength.com/support/calculator/soa/soald.php

Temperature Controllers:
http://www.teamwavelength.com/support/calculator/soa/soatc.php

If you have any questions about the Safe Operating Area calculator, call the factory for free and prompt technical assistance.

MOUNTING INSTRUCTIONS

The heatsink can be mounted to the bracket in two different ways, illustrated in the exploded views of **Figure 1 and Figure 2**.
• If the heatsink is mounted on the side opposite the bracket foot, per **Figure 1**, the heatsink can be attached to the bracket before the bracket is mounted to the bench.
• If the heatsink is attached on the same side as the mounting foot, as in **Figure 2**, first mount the bracket to the benchtop before attaching the heatsink.

Then attach the heatsink to the bracket using 6-32 panhead screws (included) through four 0.140" holes (Ref C).

The bracket is mounted to the bench using 1/4-20 bolts (not included) through the two 0.281" holes (Ref A) or by other screws through the two 0.140" holes (Ref B).

Table 1. Which Modules are Compatible with the Bracket?

MODULE	HTSK-BRKT with MULTI-HTSK or MULTI-HTSK-HI
PLDxK-CH Series	Y
LDTCxx20 Series	Y
RHM5K-CH	Y
PTCxK-CH Series, -SL	Y
MPL Series	N
MPT Series	N

Figure 1.   Mounting Option One

MULTI-HTSK-HI shown.

Mounting instructions are identical for MULTI-HTSK.
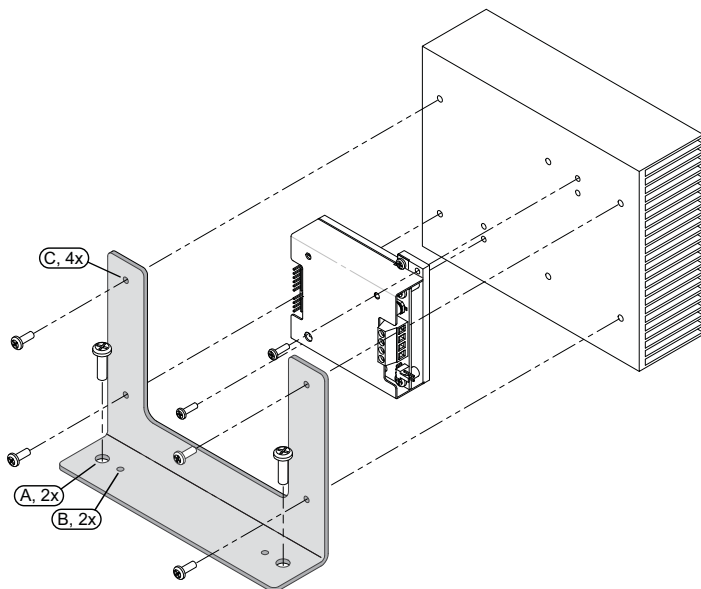

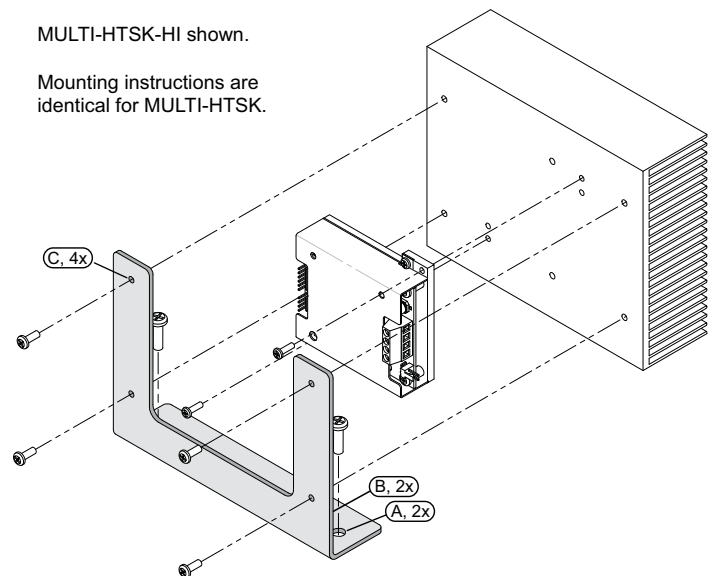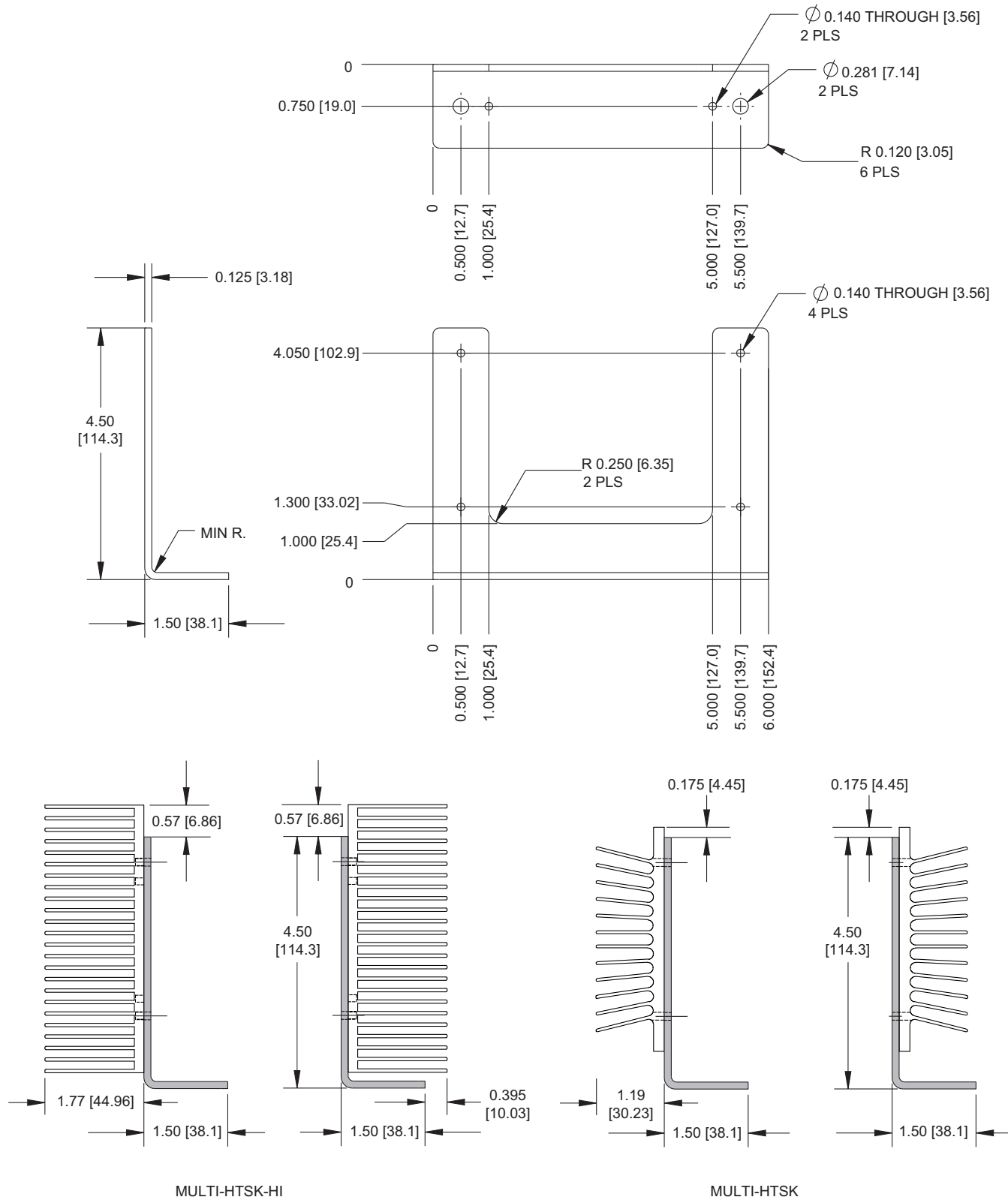**Figure 2.   Mounting Option Two**

The module is attached to the heatsink using screws that are included with the module.

MECHANICAL SPECIFICATIONS

0

Ø 0.140 THROUGH [3.56]
2 PLS

0.750 [19.0]

Ø 0.281 [7.14]
2 PLS

R 0.120 [3.05]
6 PLS

0

0.500 [12.7]
1.000 [25.4]
5.000 [127.0]
5.500 [139.7]

0.125 [3.18]

Ø 0.140 THROUGH [3.56]
4 PLS

4.050 [102.9]

4.50
[114.3]

R 0.250 [6.35]
2 PLS

1.300 [33.02]
1.000 [25.4]

MIN R.

0

1.50 [38.1]

0

0.500 [12.7]
1.000 [25.4]
5.000 [127.0]
5.500 [139.7]
6.000 [152.4]

0.57 [6.86]

0.57 [6.86]

0.175 [4.45]

0.175 [4.45]

4.50
[114.3]

4.50
[114.3]

4.50
[114.3]

1.77 [44.96]

1.50 [38.1]

0.395
[10.03]

1.50 [38.1]

1.19
[30.23]

1.50 [38.1]

1.50 [38.1]

MULTI-HTSK-HI

MULTI-HTSK

DIMENSIONS IN INCHES [MM]
ALL DIMENSIONS ARE ±0.01 [0.25]

Figure 3.   **Heatsink Bracket Dimensions**
(MULTI-HTSK and MULTI-HTSK-HI sold separately.)

CERTIFICATION AND WARRANTY

CERTIFICATION

Wavelength Electronics, Inc. (Wavelength) certifies that this product met its published specifications at the time of shipment. Wavelength further certifies that its calibration measurements are traceable to the United States National Institute of Standards and Technology, to the extent allowed by that organization's calibration facilities, and to the calibration facilities of other International Standards Organization members.

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REVISION HISTORY

DOCUMENT NUMBER: HTSK-BRKT00400

REV.	DATE	CHANGE
A	Apr 2012	Initial Release
B	October 2013	Extended Warranty

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