

SUA-45-S1

Universal Heatsink, 45 Watt Power Dissipation Capacity, Uni-Guide™ Compatible

SUA-45-S1 is a universal heatsink, which is designed and fabricated for SAGE Millimeter's active device applications with up to 45 watt power dissipation. The heatsink consists the main heatsink body, a DC fan and a heat spreader. The heat spreader is also known as adapter, which is used to bridge the mounting gap between the heat sink main body and the to-be-heat-sunk devices, such as power amplifier, frequency active multiplier, oscillator, transmitter and transceiver due to various mounting hole locations. The heat spreader offers various mounting patterns to accommodate more than 15 product models. This heatsink is not only designed for SAGE Millimeter's standard products and Uni-Guide™ featured products, but also for many industrial standard microwave and millimeterwave products offered by other manufacturers. Other heatsinks with different power dissipation capacities are offered under different model numbers.



Electrical Specifications:

Item	Specification
Fan Power	+12 V _{DC}
Fan Power Designations	Red Lead (Positive), Black Lead (GND), Yellow Lead (N/A or Tach)
DC Connector	Molex 5051-03
Fan Detachability	Yes

Mechanical Specifications:

Item	Specification
Mounting Screw	4-40 x 3/16" Long, 4 Pieces
Material	Aluminum
Finish	Clear Chem Film
Weight	8.1 Oz
Size	2.36" x 2.36" x 2.52"
Outline	UA-45-1

ECCN

EAR99

FEATURES

- High Power Dissipation Efficiency
- DC Powered Cooling Fan
- Heat Spreader for Various Mounting Patterns
- Easy Mounting and Dismounting

APPLICATIONS

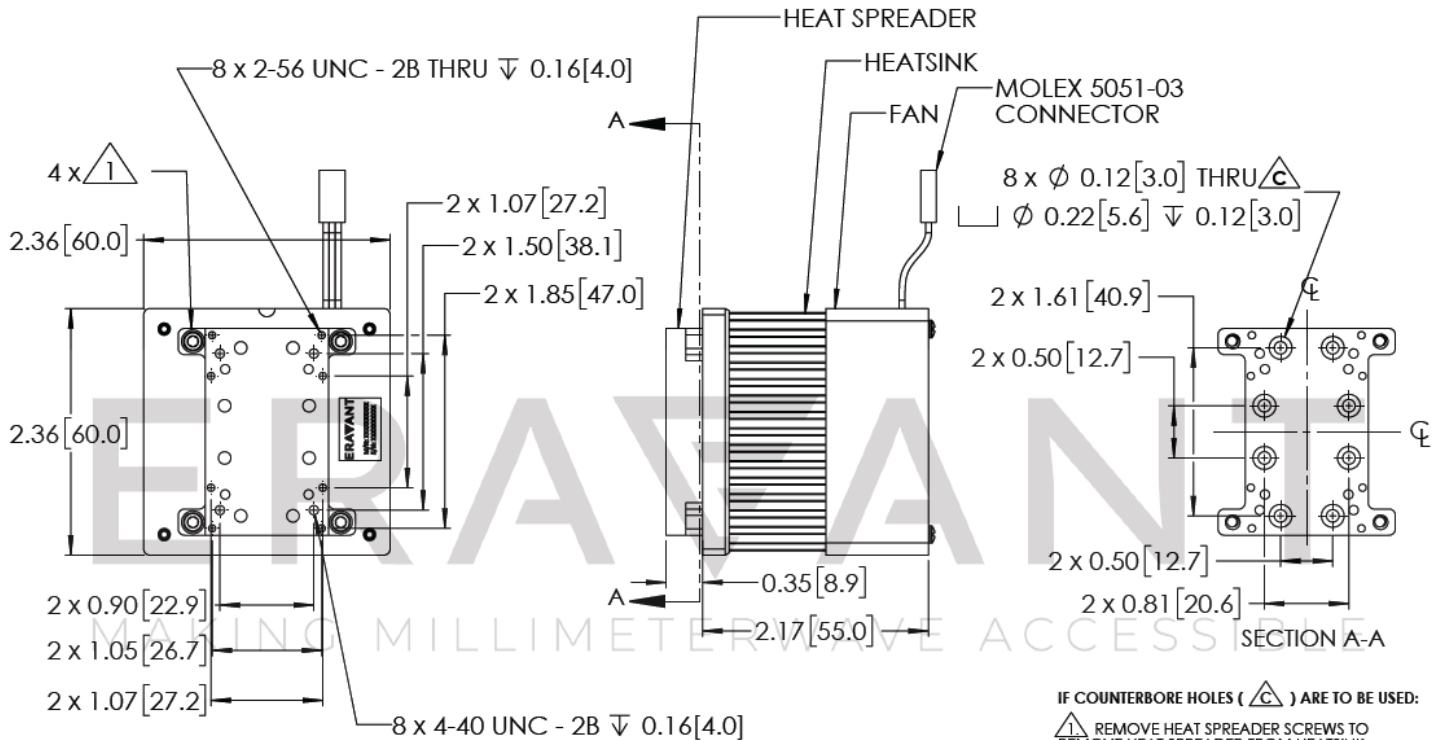
- Single Function Components
- Sub-assemblies
- Lab Use

SUPPLEMENTAL DETAILS



SUA-45-S1

Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



IF COUNTERBORE HOLES (\triangle) ARE TO BE USED:

1. REMOVE HEAT SPREADER SCREWS TO REMOVE HEAT SPREADER FROM HEATSINK.

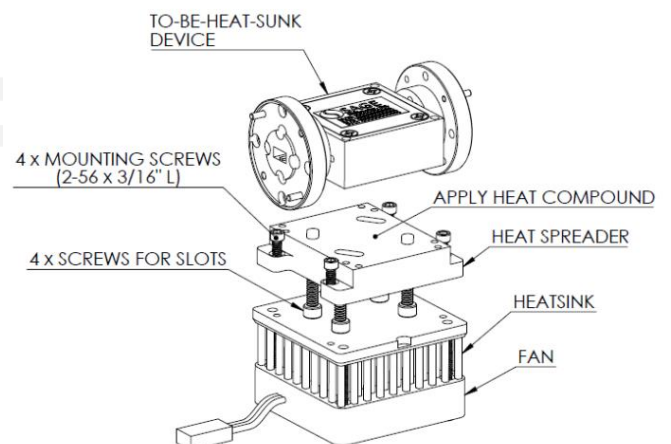
2. MOUNT HEAT SPREADER ONTO USER PACKAGE.

3. REMOUNT USER PACKAGE AND HEAT SPREADER ONTO HEAT SINK

MOLEX 5051-03	
WIRE	SIGNAL
BLACK	GND
RED	+12 VDC
YELLOW	TACH

Mounting Instructions:

- Remove the heat spreader from the heatsink by unscrewing the four provided 2-56x3/16" long mounting screws.
- Mount the heat spreader onto the to-be-heat-sunk device by inserting 4-40 screws from the slotted surface to form the sub-assembly. Apply heat compound material between the two surfaces for better heatsink efficiency.
- Remount the sub-assembly onto the heatsink main body. Apply heat compound material if desired.



NOTE:

- On condition that test data is provided it is collected from a sample lot. Actual data may vary slightly from unit to unit. All testing is performed under +25 °C room temperature.
- On condition that simulated test data is provided, actual measured data may slightly vary.
- Eravant reserves the right to change the information presented without notice.

CAUTION:

- If a waveguide is present, any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.
- For 1 mm connectors proper torque should be applied: 4.0 ± 0.15 inch-pounds (0.45 ± 0.02 Nm). Torque wrench model [SCH-06004-S1](#) is highly recommended.
- For 1.35 mm, 1.85 mm, 2.4 mm, 2.92 mm, and SMA connectors proper torque should be applied: 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm). Torque wrench model [SCH-08008-S1](#) is highly recommended.

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