



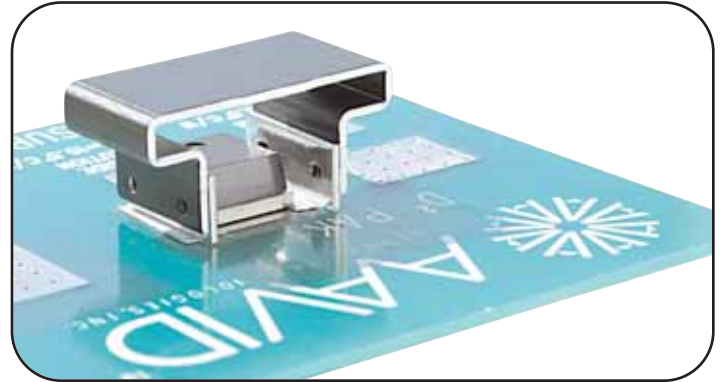
**AAVID  
THERMALLOY**

## Slalom Surface Mount Heat Sink for D<sup>2</sup>PAK

RoHS   
Compliant

### SLALOM SURFACE MOUNT HEAT SINK

Aavid Thermalloy introduces its newest innovation in SMT compatible heat sinks to meet the needs of newer higher power semiconductors. The heat sinks' unique design (Patent Pending) combines the technology of automatically assembling the tin plated solderable tags with that of stamping pre-black anodized or painted aluminium coils to configure these SMT heat sinks. Tags named "Skis" are fixed mechanically to the heat sink body by self-riveting or staking.



#### FEATURES AND BENEFITS:

- Increased thermal performance up to 30% over bright copper heat sinks from improved radiation of the black finish
- Unique aluminum design reduces the heat sink cost versus similar designs utilizing copper
- Light weight aluminum construction allows faster pick and place assembly reducing the manufacturing cycle time
- The black finish provides enhanced heat absorption, improving Infra-red reflow process cycle time and quality
- Edge mounted "Skis" are designed for use in applications with limited PC board space and allow customization of footprint design and size
- Available in bulk packaging or Tape & Reel

#### APPLICATIONS:

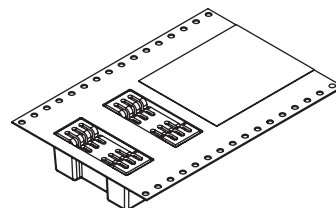
- Power Supplies
- Telecommunication Equipment
- Motor Controls
- Medical Equipment
- Industrial Process Control Equipment
- Consumer Products

#### ORDERING INFORMATION:

| Part Number | Description                                    | Packaging                |
|-------------|--|--------------------------|
| 412512      | Surface mount heat sink for D <sup>2</sup> PAK | Bulk 500 per bag         |
| 411399      | Surface mount heat sink for D <sup>2</sup> PAK | 330 mm reel 250/per reel |

#### TAPE AND REEL:

|  |                |
|--|----------------|
| Tape width:  | 44.00 (1.73)   |
| Pocket depth:                                      | 13.50 (0.53)   |
| Pocket pitch:                                      | 20.00 (0.79)   |
| Reel diameter:                                     | 330.00 (13.00) |
| Tape holes diameter:                               | 1.50 (0.06)    |
| Distance between tape holes centers (along width): | 40.40 (1.59)   |
| Pitch between tape holes centers (along length):   | 4.00 (0.16)    |

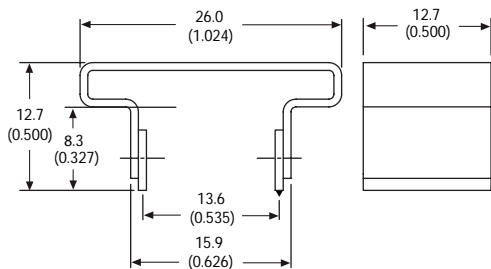


FOR MORE INFORMATION, VISIT OUR WEB SITE: [WWW.AAVIDTHERMALLOY.COM](http://WWW.AAVIDTHERMALLOY.COM)  
TEL: (603) 224-9988



**MECHANICAL OUTLINE:**

Figure 1



**FOOTPRINTS:**

The thickness of the drain pad is variable depending on the amount of heat generated by the SMT device, design, limitations and process. This is the exposed printed circuit.

Figure 2

Recommended Copper Heat Spreader  
Drain Pad Footprint

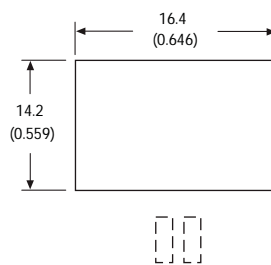
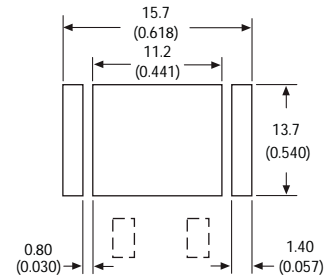


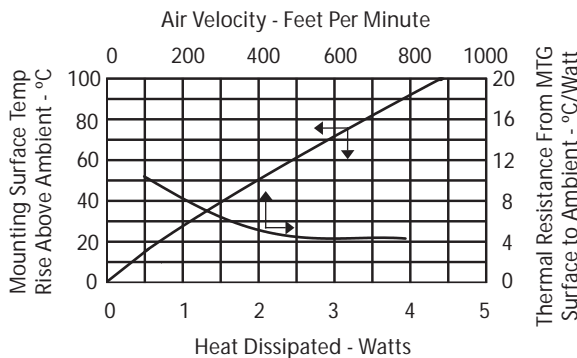
Figure 3

Recommended Heat Sink  
Solder Mask Opening



**PERFORMANCE:**

Slalom has a better thermal performance than standard copper heat sinks.



| Power Dissipated | Copper (Tinned)<br>Part 573300D00000G | Aluminium (Pre-black)<br>Part 412512 | Improvement |
|------------------|---------------------------------------|--------------------------------------|-------------|
| 1W               | 28.5 °C/W RthN                        | 24.6 °C/W RthN                       | 15.9 %      |
| 2W               | 24.5 °C/W RthN                        | 21.7 °C/W RthN                       | 12.9 %      |
| 3W               | 23.1 °C/W RthN                        | 28.03 °C/W RthN                      | 13.8 %      |

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