



## STAMPED HEAT SINKS

### ATS STAMPED STANDARD HEAT SINK CATALOG

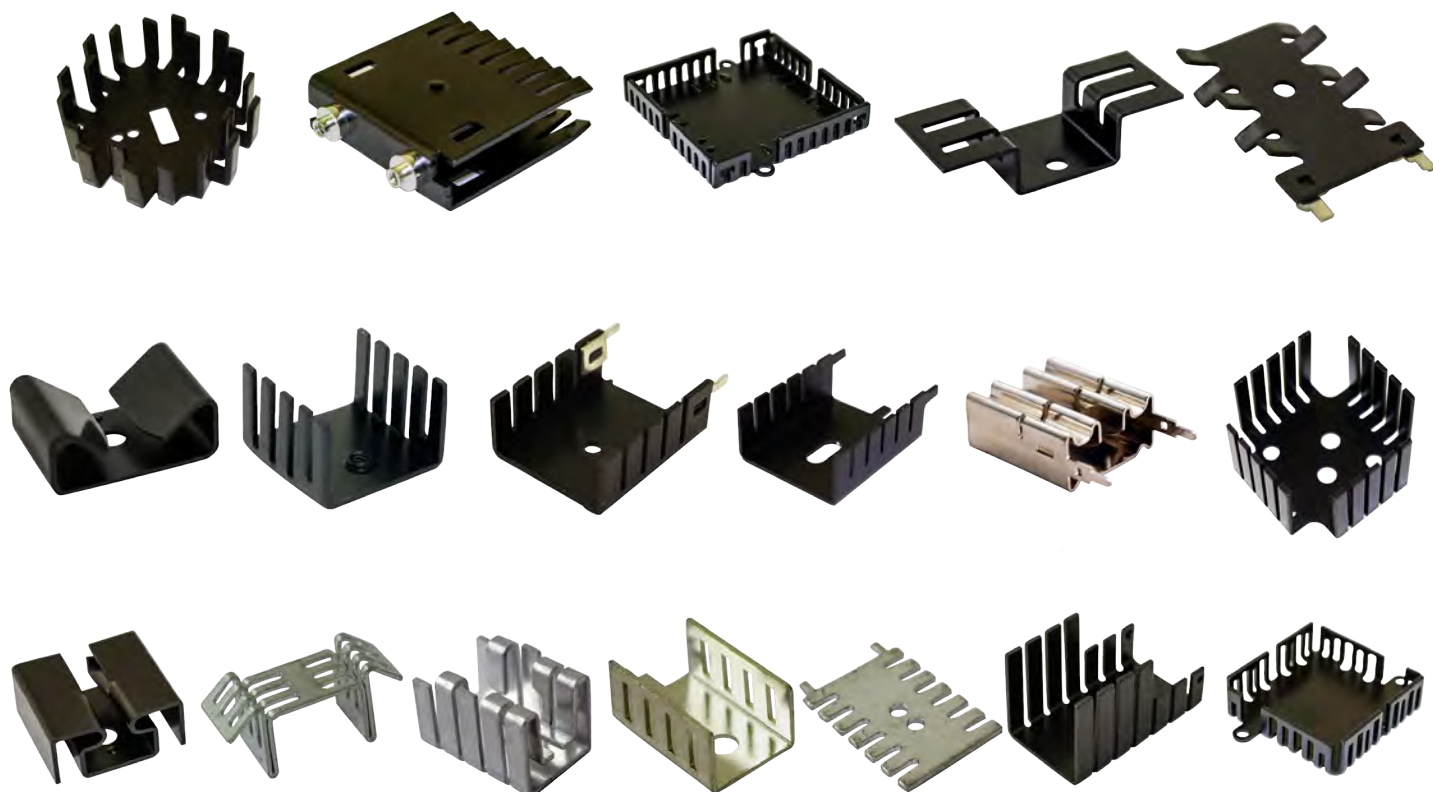


**ATS** **ADVANCED  
THERMAL  
SOLUTIONS, INC.**  
Innovations in Thermal Management®

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## STAMPED STANDARD HEAT SINKS



### » PC board level standard heat sinks

» Cost effective solutions designed to cool TO-3, TO-5, TO-39, TO-92, TO-126, TO-127, TO-202, TO-218, TO-220, TO-247, TO-262, TO-263 packages

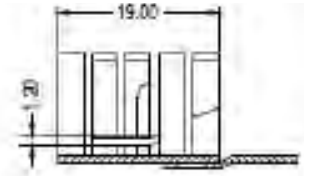
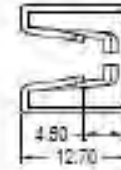
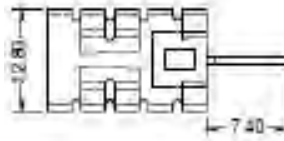
» Offered in anodized aluminum, copper tin-plated, steel tin-plated and aluminum tin-plated materials

» Solderable tabs allow for easy assembly

» Clips, nuts, or thermal pads optional

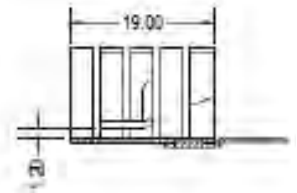
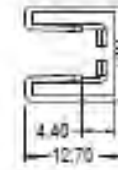
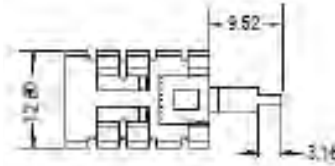


## ATS-PCB1001



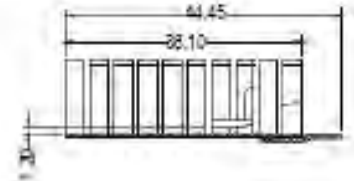
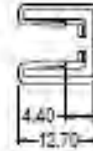
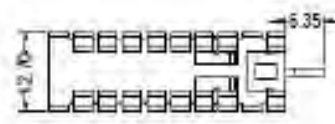
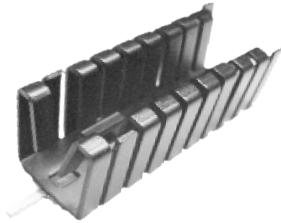
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 19          | 12.8       | 12.7        | Aluminum | Black Anodized | TO-220,TO-262   | 27.3                                    | 10.2        | 7.0         | 5.7         | 4.8         |

## ATS-PCB1002



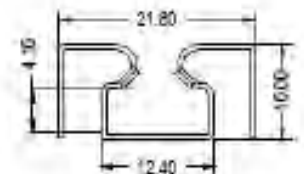
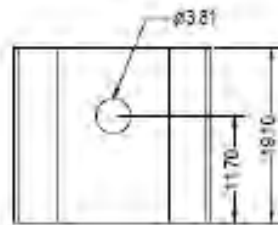
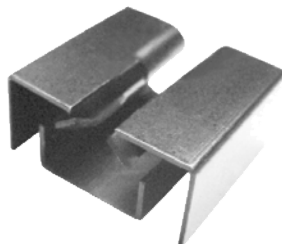
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 19          | 12.8       | 12.7        | Aluminum | Black Anodized | TO-220,TO-262   | 27.3                                    | 10.2        | 7.0         | 5.7         | 4.8         |

## ATS-PCB1003



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 38.1        | 12.7       | 12.7        | Aluminum | Black Anodized | TO-220          | 20.0                                    | 7.0         | 4.6         | 3.7         | 3.0         |

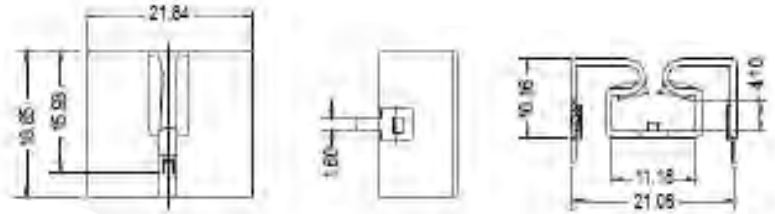
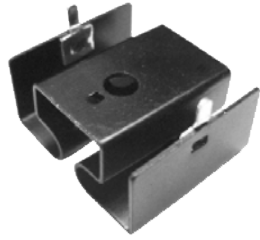
## ATS-PCB1004



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 19.1        | 21.8       | 10.0        | Aluminum | Black Anodized | TO-220          | 23.2                                    | 12.7        | 9.0         | 7.0         | 5.6         |

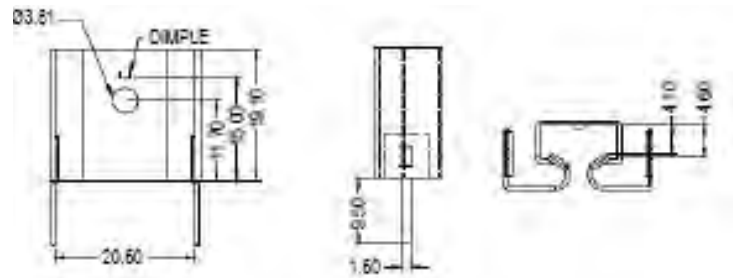


## ATS-PCB1005



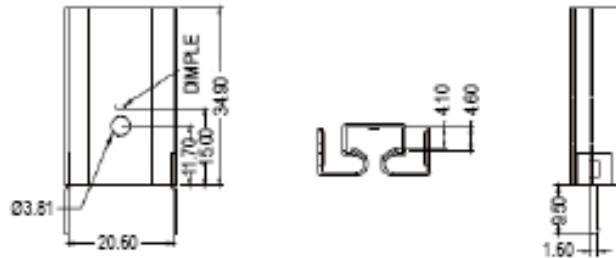
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 18.85       | 21.84      | 10.16       | Aluminum | Black Anodized | TO-220          | 23.2                                    | 12.0        | 8.2         | 6.0         | 4.2         |

## ATS-PCB1006



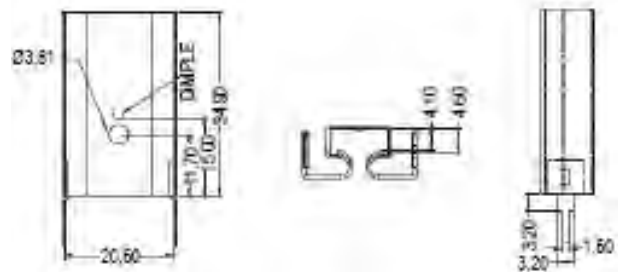
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 19.1        | 21.84      | 9.91        | Aluminum | Black Anodized | TO-220          | 21.2                                    | 11.0        | 8.0         | 6.0         | 4.8         |

## ATS-PCB1007



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 34.9        | 21.84      | 10.03       | Aluminum | Black Anodized | TO-220          | 16.0                                    | 11.0        | 8.0         | 6.0         | 4.8         |

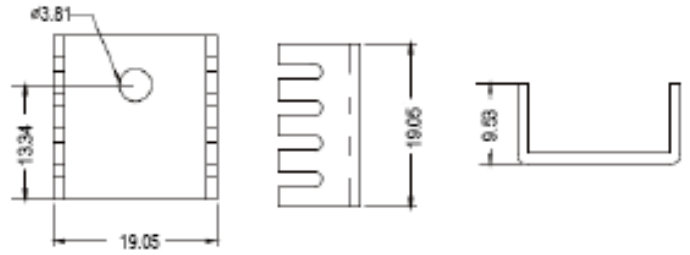
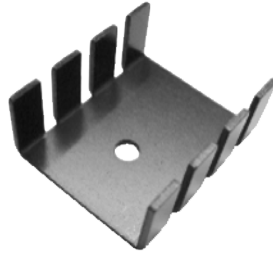
## ATS-PCB1008



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 34.9        | 21.84      | 10.03       | Aluminum | Black Anodized | TO-220          | 16.0                                    | 11.0        | 8.0         | 6.0         | 4.8         |

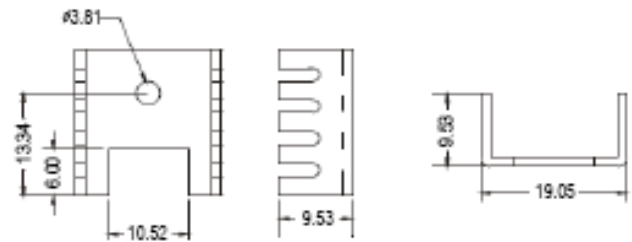


## ATS-PCB1009



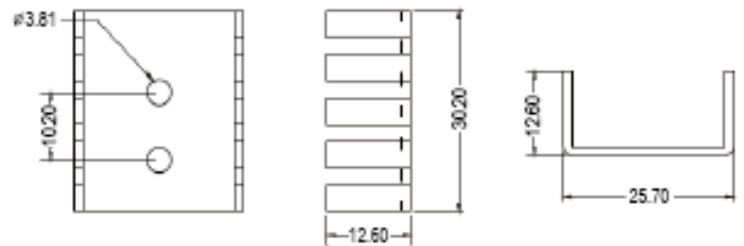
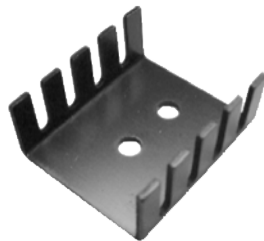
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 19.05       | 19.05      | 9.53        | Aluminum | Black Anodized | TO-220          | 24.0                                    | 10.0        | 6.1         | 5.0         | 4.0         |

## ATS-PCB1010



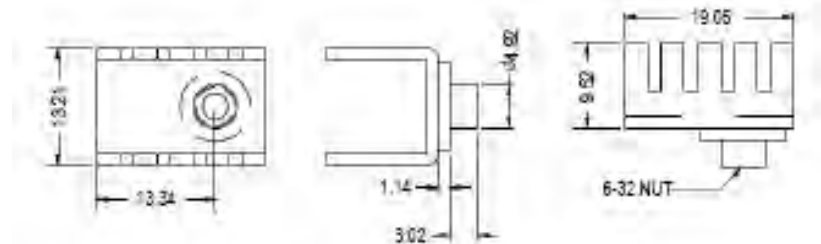
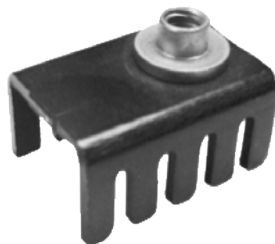
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 19.05       | 19.05      | 9.53        | Aluminum | Black Anodized | TO-220          | 24.0                                    | 10.0        | 6.1         | 5.0         | 4.0         |

## ATS-PCB1011



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 30.2        | 25.7       | 12.6        | Aluminum | Black Anodized | TO-220          | 16.7                                    | 11.0        | 7.8         | 6.0         | 5.1         |

## ATS-PCB1012

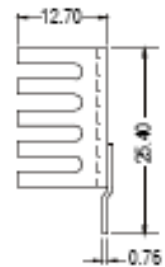
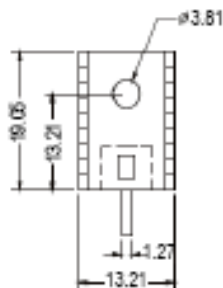


| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 19.05       | 13.21      | 9.52        | Aluminum | Black Anodized | TO-220          | 25.9                                    | 12.0        | 8.1         | 7.4         | 7.1         |



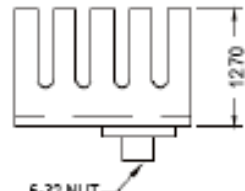
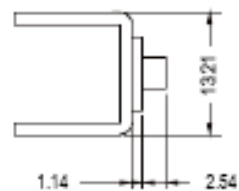
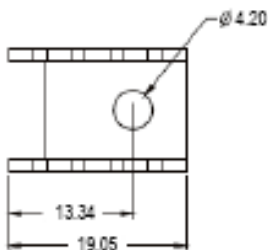
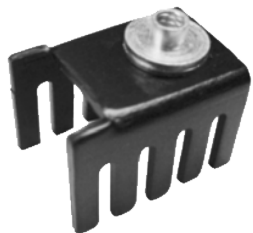


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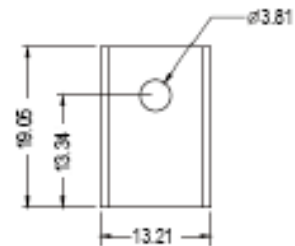
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 19.05       | 13.21      | 12.7        | Aluminum | Black Anodized | TO-220          | 24.4                                    | 9.5         | 6.8         | 6.4         | 6.0         |

## ATS-PCB1014



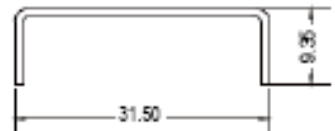
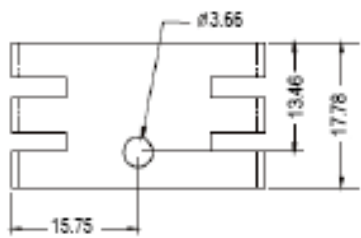
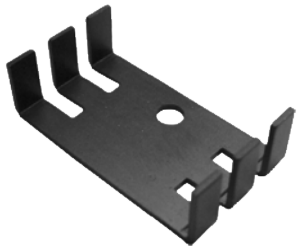
| Length (mm) | Width (mm) | Height (mm) | Material | Finish       | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|--------------|-----------------|---|-------------|-------------|-------------|-------------|
| 19.05       | 13.21      | 12.7        | Aluminum | Blk Anodized | TO-220          | 24.4                                    | 9.5         | 6.8         | 6.4         | 6.0         |

## ATS-PCB1015



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 19.05       | 13.21      | 12.7        | Aluminum | Black Anodized | TO-220          | 25.0                                    | 10.2        | 7.5         | 6.1         | 6.0         |

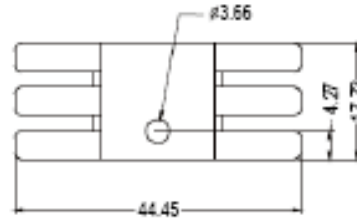
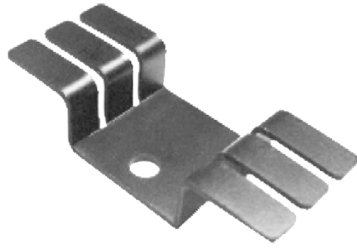
## ATS-PCB1016



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 17.78       | 31.5       | 9.35        | Aluminum | Black Anodized | TO-220          | 20.6                                    | 12.5        | 10.0        | 8.9         | 8.2         |

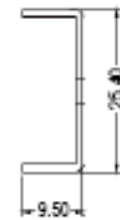
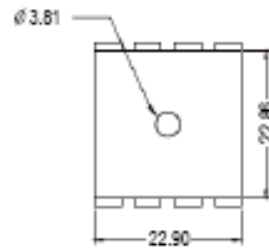


## ATS-PCB1017



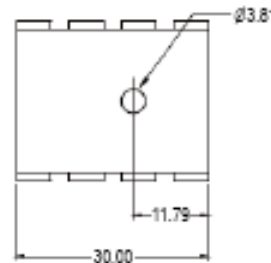
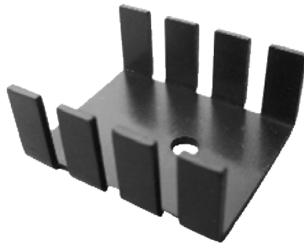
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 17.73       | 44.45      | 9.43        | Aluminum | Black Anodized | TO-220, TO-202  | 15.6                                    | 7.1         | 5.5         | 4.2         | 3.2         |

## ATS-PCB1018



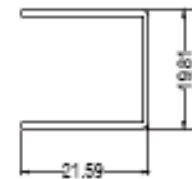
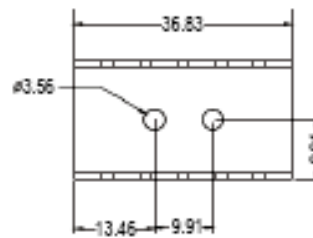
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 22.9        | 25.4       | 9.5         | Aluminum | Black Anodized | TO-220          | 20.8                                    | 8.1         | 5.3         | 4.1         | 3.8         |

## ATS-PCB1019



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled        | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|------------------------|---|-------------|-------------|-------------|-------------|
| 30.0        | 25.4       | 12.7        | Aluminum | Black Anodized | TO-220, TO-202, TO-220 | 22.0                                    | 10.1        | 7.0         | 5.0         | 4.2         |

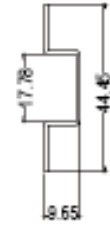
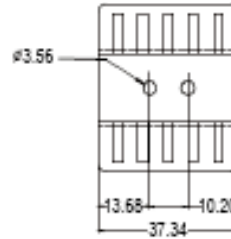
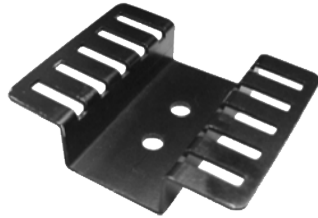
## ATS-PCB1020



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 36.83       | 19.81      | 21.59       | Aluminum | Black Anodized | TO-220          | 6.4                                     | 5.0         | 3.5         | 2.2         | 1.9         |

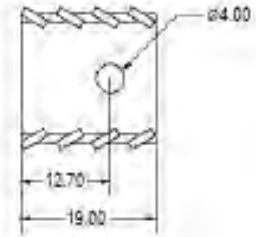
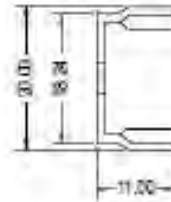
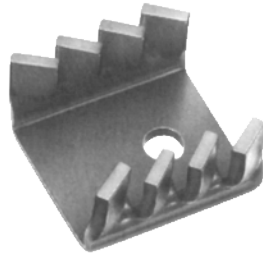


## ATS-PCB1021



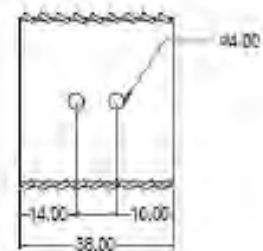
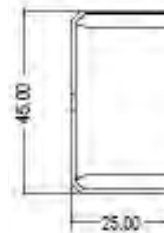
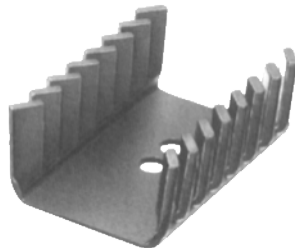
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 37.34       | 44.45      | 9.65        | Aluminum | Black Anodized | TO-220          | 9.6                                     | 3.0         | 1.8         | 1.0         | 0.9         |

## ATS-PCB1022



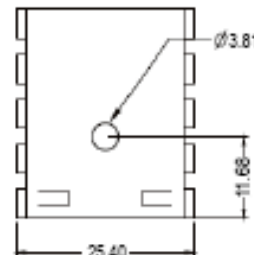
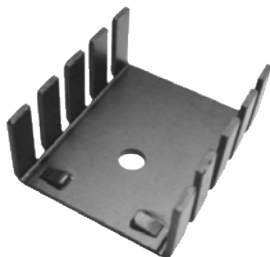
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 19.0        | 20.0       | 11.0        | Aluminum | Black Anodized | TO-220          | 30.0                                    | 20.0        | 14.0        | 11.0        | 9.0         |

## ATS-PCB1023



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 38.0        | 45.0       | 25.0        | Aluminum | Black Anodized | TO-220          | 7.2                                     | 4.8         | 3.7         | 3.0         | 2.8         |

## ATS-PCB1024

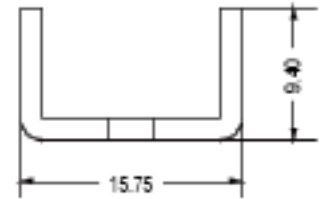
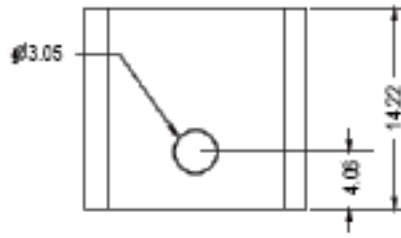


| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 29.97       | 25.4       | 12.7        | Aluminum | Black Anodized | TO-220          | 16.7                                    | 11.0        | 7.8         | 6.0         | 5.1         |



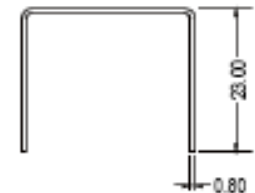
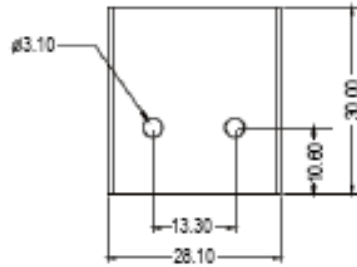


## ATS-PCB1025



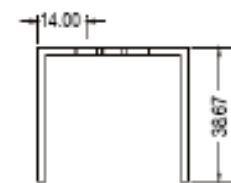
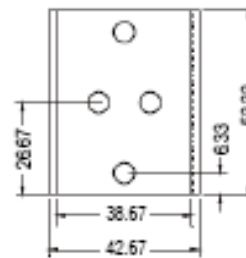
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 14.22       | 15.75      | 9.4         | Aluminum | Black Anodized | TO-126          | 33.0                                    | 19.0        | 14.2        | 11.8        | 11.0        |

## ATS-PCB1026



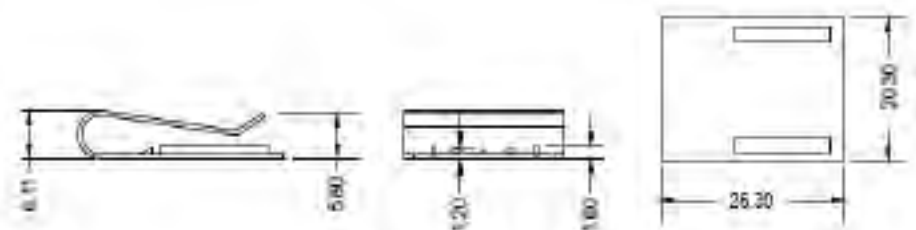
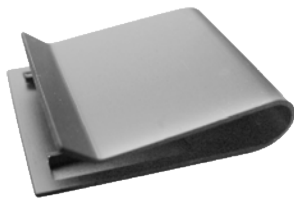
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 30.0        | 28.1       | 23.0        | Aluminum | Black Anodized | TO-220          | 13.0                                    | 7.1         | 4.4         | 4.0         | 3.9         |

## ATS-PCB1027



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 53.33       | 42.67      | 38.67       | Aluminum | Black Anodized | TO-220          | 10.0                                    | 6.0         | 4.0         | 3.5         | 2.6         |

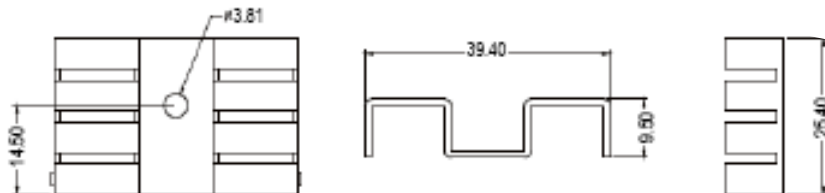
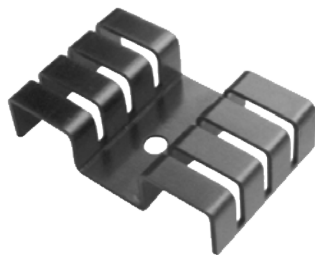
## ATS-PCB1028



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 26.3        | 20.3       | 6.11        | Aluminum | Black Anodized | TO-220          | 23.0                                    | 6.5         | 4.5         | 3.3         | 2.5         |

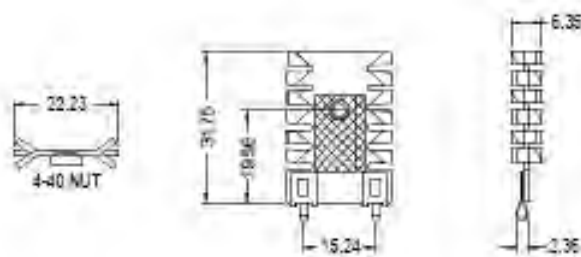
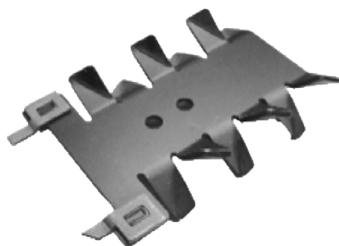


## ATS-PCB1029



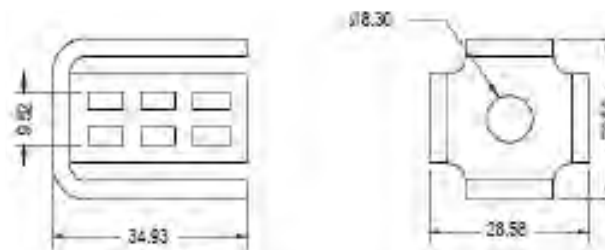
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 25.4        | 39.4       | 9.5         | Aluminum | Black Anodized | TO-220          | 11.0                                    | 6.8         | 5.0         | 3.7         | 3.0         |

## ATS-PCB1030



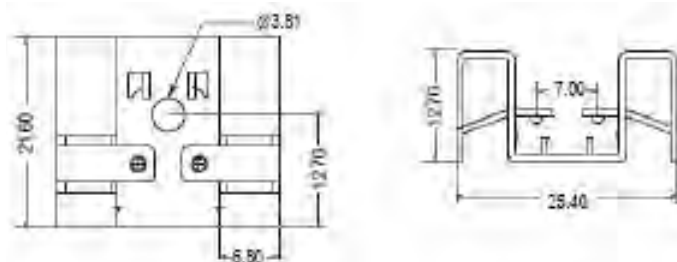
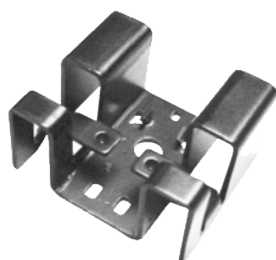
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 31.75       | 22.23      | 6.35        | Aluminum | Black Anodized | TO-220          | 22.0                                    | 9.9         | 5.2         | 4.2         | 3.8         |

## ATS-PCB1031



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled  | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|------------------|---|-------------|-------------|-------------|-------------|
| 28.58       | 28.58      | 34.93       | Aluminum | Black Anodized | Bridge Rectifier | 9.0                                     | 4.8         | 3.4         | 2.3         | 1.9         |

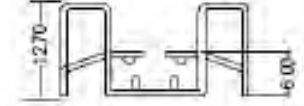
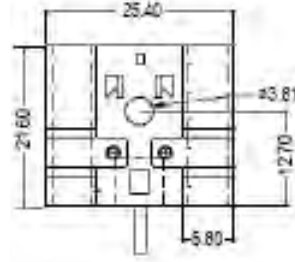
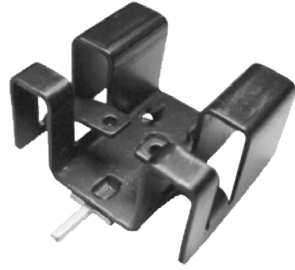
## ATS-PCB1032



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 21.6        | 25.4       | 12.7        | Aluminum | Black Anodized | TO-220          | 20.0                                    | 9.0         | 6.8         | 5.3         | 4.0         |

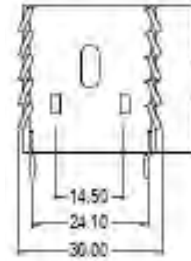


## ATS-PCB1033



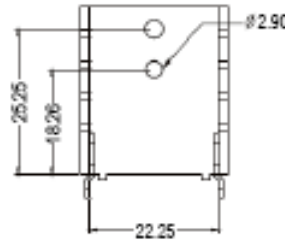
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 21.6        | 25.4       | 12.7        | Aluminum | Black Anodized | TO-220          | 20.0                                    | 9.0         | 6.8         | 5.3         | 4.0         |

## ATS-PCB1034



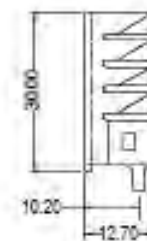
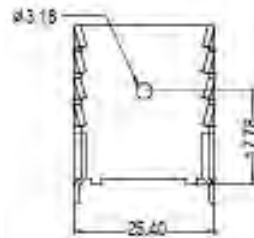
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 30.2        | 30.0       | 12.7        | Aluminum | Black Anodized | TO-220          | 13.0                                    | 8.9         | 6.5         | 5.2         | 4.2         |

## ATS-PCB1035



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 29.97       | 25.4       | 12.7        | Aluminum | Black Anodized | TO-220          | 12.5                                    | 7.3         | 5.6         | 4.7         | 4.2         |

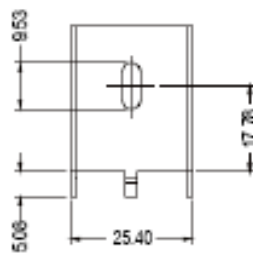
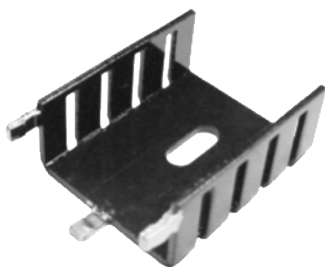
## ATS-PCB1036



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 30.0        | 25.4       | 12.7        | Aluminum | Black Anodized | TO-220          | 13.4                                    | 7.0         | 5.0         | 4.0         | 3.7         |

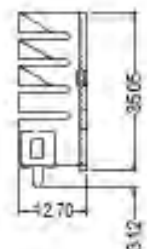
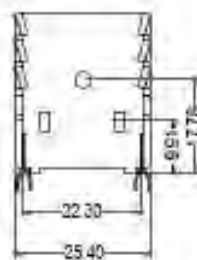
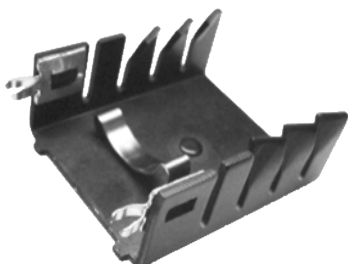


## ATS-PCB1037



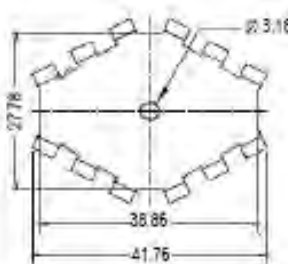
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 35.05       | 25.4       | 12.7        | Aluminum | Black Anodized | TO-220          | 18.0                                    | 13.0        | 9.1         | 7.5         | 6.6         |

## ATS-PCB1038



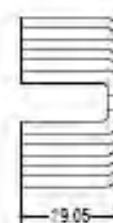
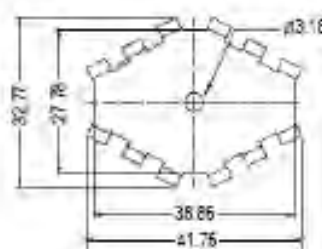
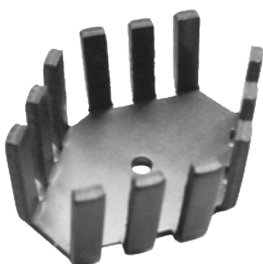
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 30.0        | 25.4       | 12.7        | Aluminum | Black Anodized | TO-220          | 13.4                                    | 7.0         | 5.1         | 4.0         | 2.2         |

## ATS-PCB1039



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 41.76       | 32.77      | 12.7        | Aluminum | Black Anodized | TO-220          | 15.6                                    | 5.6         | 3.6         | 3.0         | 2.9         |

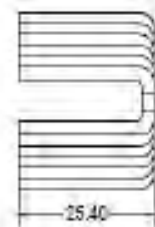
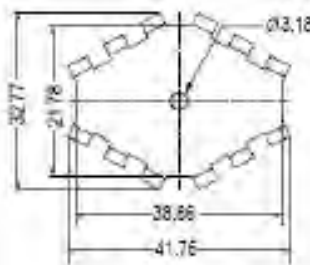
## ATS-PCB1040



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 41.76       | 32.77      | 19.05       | Aluminum | Black Anodized | TO-220          | 13.4                                    | 3.9         | 2.8         | 2.6         | 2.3         |

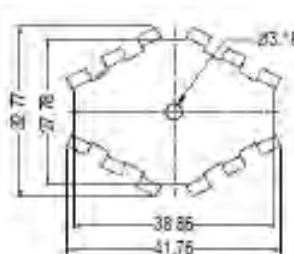


## ATS-PCB1041



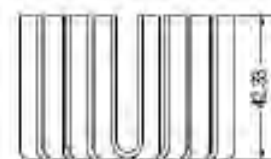
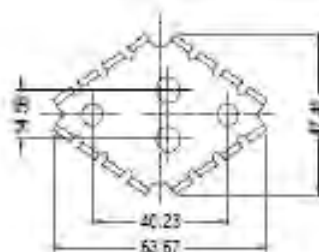
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 41.76       | 32.77      | 25.4        | Aluminum | Black Anodized | TO-220          | 11.0                                    | 3.8         | 2.5         | 2.1         | 2.0         |

## ATS-PCB1042



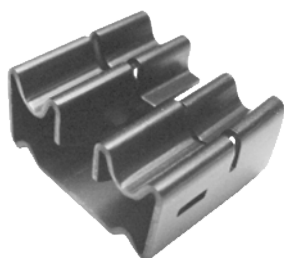
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 41.76       | 32.77      | 31.75       | Aluminum | Black Anodized | TO-220          | 9.8                                     | 3.5         | 2.3         | 2.1         | 2.0         |

## ATS-PCB1043



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 63.67       | 47.41      | 42.33       | Aluminum | Black Anodized | TO-220          | 7.5                                     | 2.6         | 2.1         | 1.7         | 1.3         |

## ATS-PCB1044

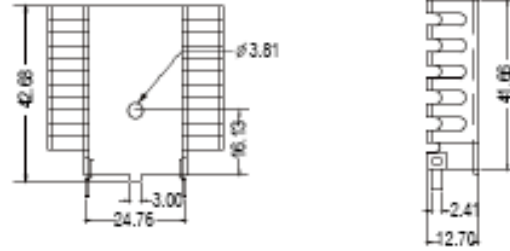
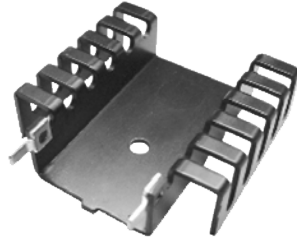


| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 19.0        | 22.0       | 11.0        | Aluminum | Black Anodized | TO-220          | 23.7                                    | 11.2        | 8.3         | 6.0         | 5.0         |



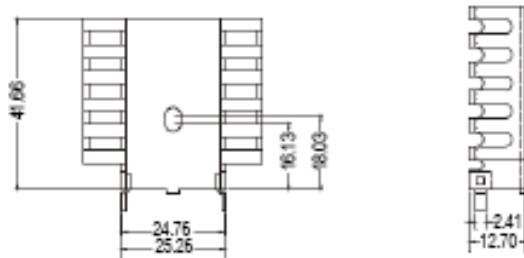
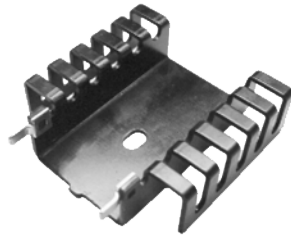


## ATS-PCB1045



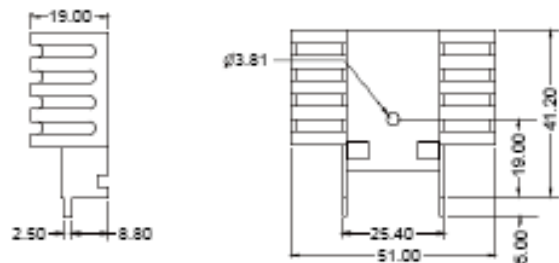
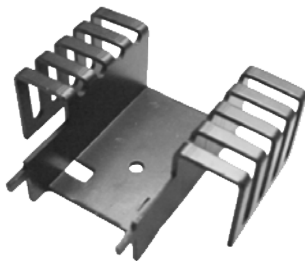
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled        | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|------------------------|---|-------------|-------------|-------------|-------------|
| 41.66       | 43.18      | 12.7        | Aluminum | Black Anodized | TO-220, TO-218, TO-247 | 8.6                                     | 6.3         | 4.5         | 3.5         | 2.8         |

## ATS-PCB1046



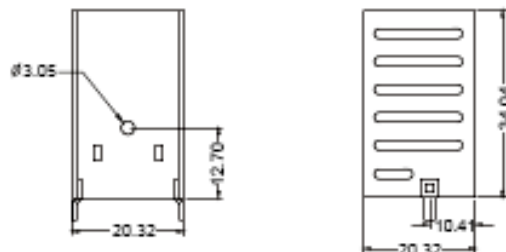
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 41.2        | 43.18      | 12.7        | Aluminum | Black Anodized | TO-220, TO-218  | 8.6                                     | 6.3         | 4.5         | 3.5         | 2.8         |

## ATS-PCB1047



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 46.2        | 51.0       | 19.0        | Aluminum | Black Anodized | TO-218, TO-247  | 8.0                                     | 2.4         | 1.8         | 1.2         | 1.0         |

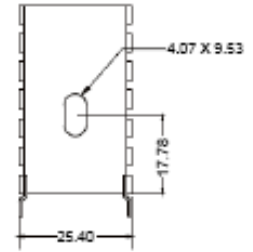
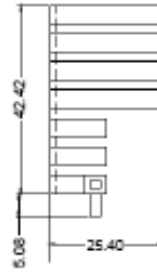
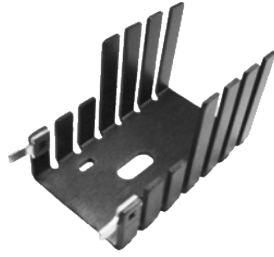
## ATS-PCB1048



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 34.04       | 20.32      | 20.32       | Aluminum | Black Anodized | TO-220          | 13.0                                    | 8.0         | 6.5         | 5.4         | 4.9         |

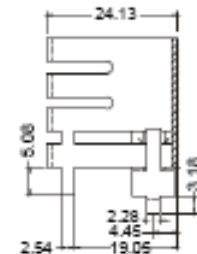
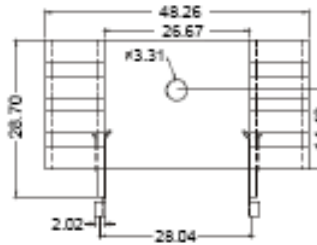
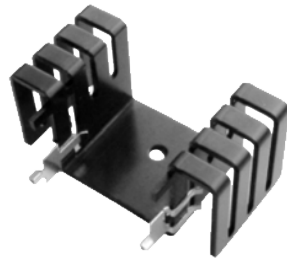


## ATS-PCB1049



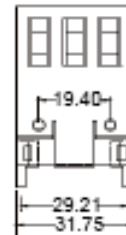
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 42.42       | 25.4       | 25.4        | Aluminum | Black Anodized | TO-220          | 10.0                                    | 4.4         | 3.6         | 3.0         | 2.8         |

## ATS-PCB1050



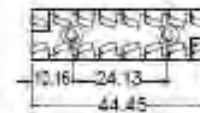
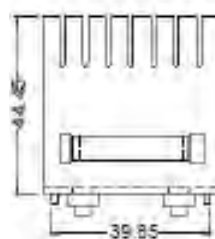
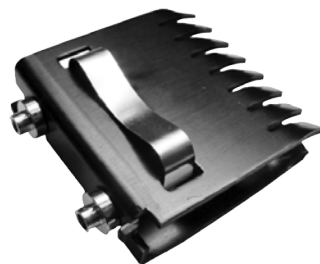
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 28.7        | 48.26      | 24.13       | Aluminum | Black Anodized | TO-220          | 6.8                                     | 4.9         | 3.5         | 2.5         | 2.2         |

## ATS-PCB1051



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 43.18       | 31.75      | 10.16       | Aluminum | Black Anodized | 12-SIP          | 10.0                                    | 4.5         | 3.1         | 2.3         | 1.6         |

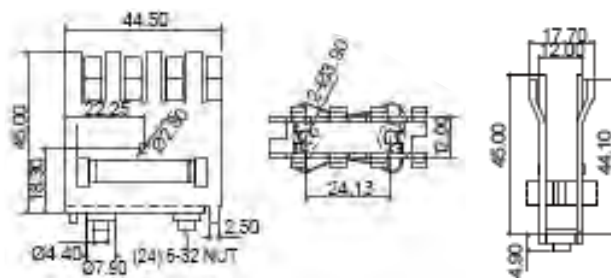
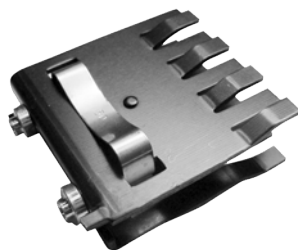
## ATS-PCB1052



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled        | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|------------------------|---|-------------|-------------|-------------|-------------|
| 44.45       | 12.7       | 44.45       | Aluminum | Black Anodized | TO-220, TO-218, TO-247 | 6.3                                     | 2.3         | 1.5         | 1.1         | 0.8         |

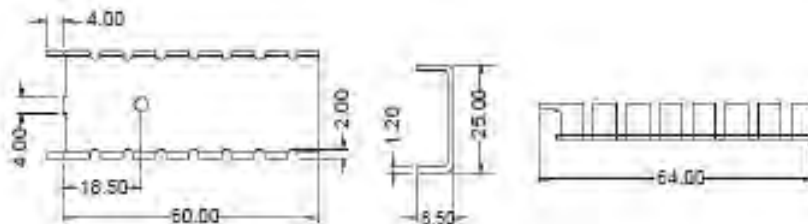


## ATS-PCB1053



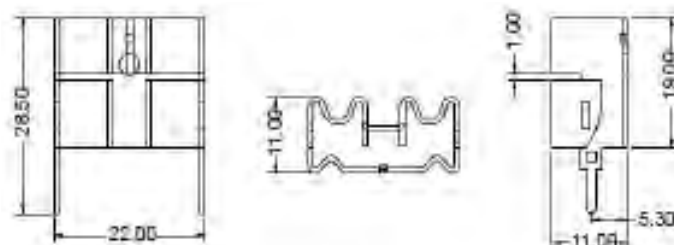
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 44.5        | 17.7       | 45.0        | Aluminum | Black Anodized | TO-220          | 6.3                                     | 2.7         | 2.0         | 1.5         | 1.1         |

## ATS-PCB1054



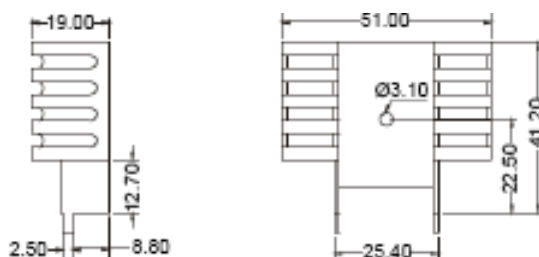
| Length (mm) | Width (mm) | Height (mm) | Material | Finish     | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|------------|-----------------|---|-------------|-------------|-------------|-------------|
| 60.0        | 25.0       | 8.5         | Copper   | Tin Plated | TO-220          | 12.0                                    | 6.7         | 5.7         | 5.2         | 4.8         |

## ATS-PCB1055



| Length (mm) | Width (mm) | Height (mm) | Material | Finish     | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|------------|-----------------|---|-------------|-------------|-------------|-------------|
| 19.0        | 22.0       | 11.0        | Copper   | Tin Plated | TO-220          | 23.7                                    | 11.2        | 8.3         | 6.0         | 5.0         |

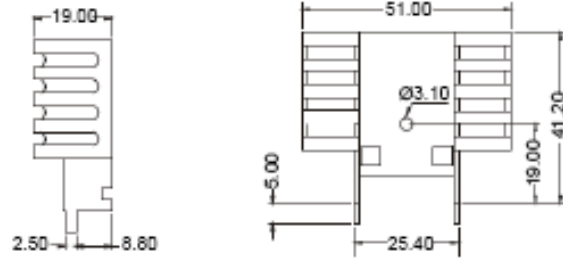
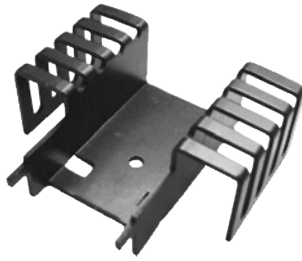
## ATS-PCB1056



| Length (mm) | Width (mm) | Height (mm) | Material | Finish     | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|------------|-----------------|---|-------------|-------------|-------------|-------------|
| 41.2        | 51.0       | 19.0        | Copper   | Tin Plated | TO-218, TO-247  | 8.0                                     | 2.4         | 1.8         | 1.2         | 1.0         |

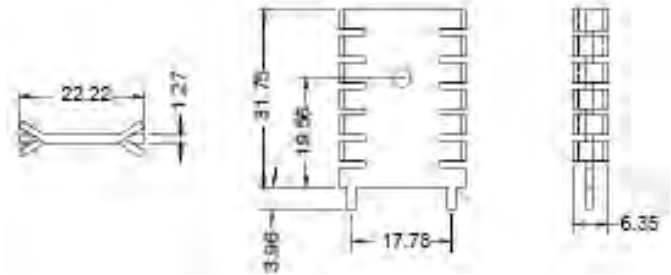
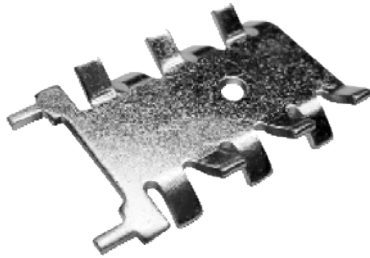


## ATS-PCB1057



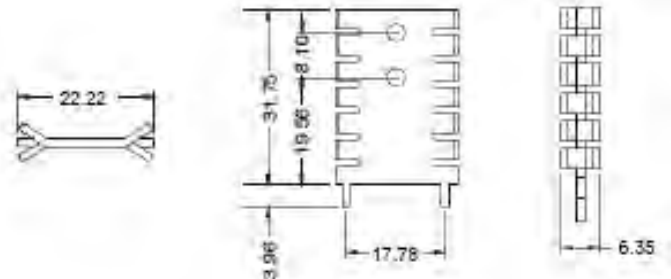
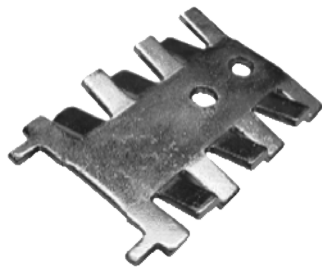
| Length (mm) | Width (mm) | Height (mm) | Material | Finish     | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|------------|-----------------|---|-------------|-------------|-------------|-------------|
| 41.2        | 51.0       | 19.0        | Copper   | Tin Plated | TO-220          | 8.0                                     | 2.4         | 1.8         | 1.2         | 1.0         |

## ATS-PCB1058



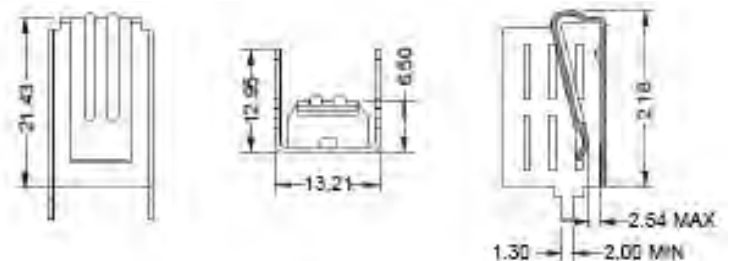
| Length (mm) | Width (mm) | Height (mm) | Material | Finish     | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|------------|-----------------|---|-------------|-------------|-------------|-------------|
| 31.75       | 22.22      | 6.35        | Copper   | Tin Plated | TO-220          | 24.0                                    | 8.8         | 6.1         | 4.1         | 4.0         |

## ATS-PCB1059



| Length (mm) | Width (mm) | Height (mm) | Material | Finish     | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|------------|-----------------|---|-------------|-------------|-------------|-------------|
| 31.75       | 22.22      | 6.35        | Copper   | Tin Plated | TO-220          | 24.0                                    | 8.8         | 6.1         | 4.1         | 4.0         |

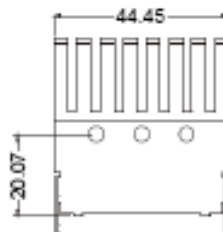
## ATS-PCB1060



| Length (mm) | Width (mm) | Height (mm) | Material | Finish     | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|------------|-----------------|---|-------------|-------------|-------------|-------------|
| 21.8        | 13.21      | 12.95       | Copper   | Tin Plated | TO-220          | 19.7                                    | 8.0         | 6.8         | 5.7         | 5.0         |

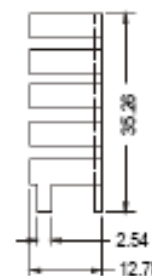
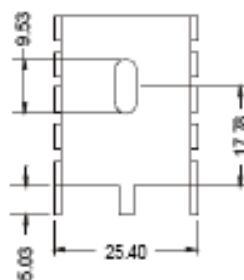
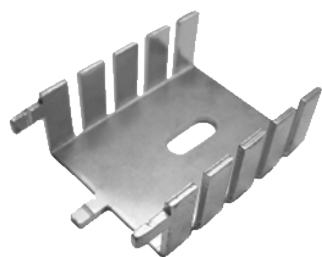


## ATS-PCB1061



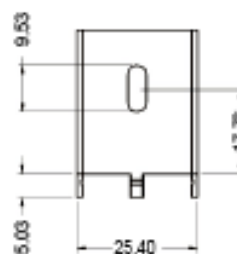
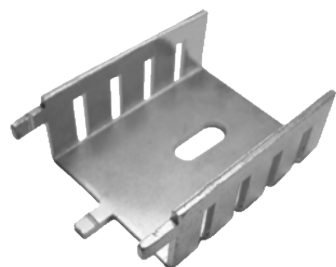
| Length (mm) | Width (mm) | Height (mm) | Material | Finish     | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|------------|-----------------|---|-------------|-------------|-------------|-------------|
| 44.68       | 44.45      | 10.16       | Copper   | Tin Plated | TO-126          | 15.0                                    | 6.5         | 5.1         | 4.3         | 3.6         |

## ATS-PCB1062



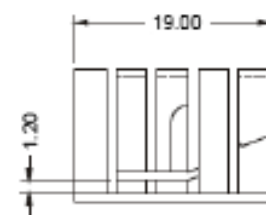
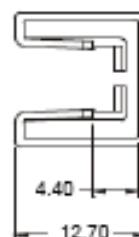
| Length (mm) | Width (mm) | Height (mm) | Material | Finish     | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|------------|-----------------|---|-------------|-------------|-------------|-------------|
| 29.97       | 25.4       | 12.7        | Copper   | Tin Plated | TO-220          | 13.0                                    | 7.0         | 5.0         | 4.0         | 3.1         |

## ATS-PCB1063



| Length (mm) | Width (mm) | Height (mm) | Material | Finish     | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|------------|-----------------|---|-------------|-------------|-------------|-------------|
| 29.97       | 25.4       | 12.7        | Copper   | Tin Plated | TO-220          | 18.0                                    | 13.0        | 9.1         | 7.5         | 6.8         |

## ATS-PCB1064

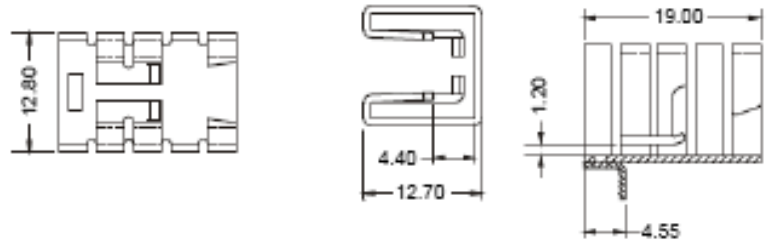
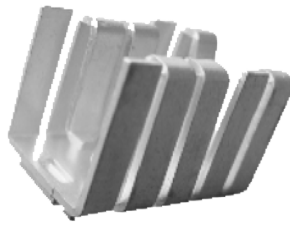


| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 19.0        | 12.8       | 12.7        | Aluminum | Black Anodized | TO-220          | 27.3                                    | 10.2        | 7.0         | 5.6         | 4.8         |



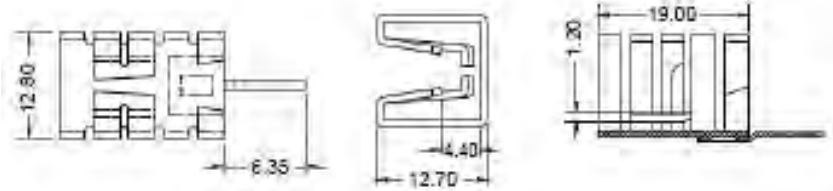


## ATS-PCB1065



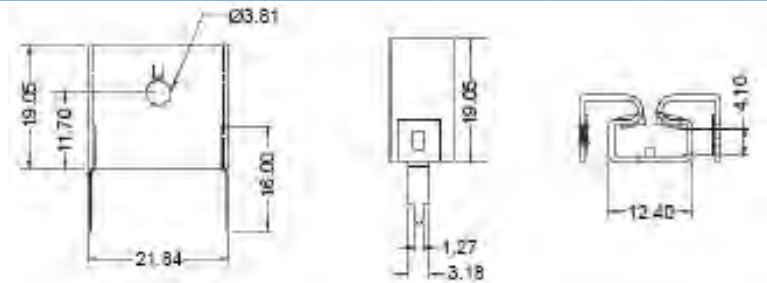
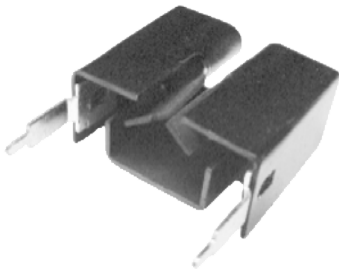
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 19.0        | 12.8       | 12.7        | Aluminum | Black Anodized | TO-220          | 27.3                                    | 10.2        | 7.0         | 5.6         | 4.8         |

## ATS-PCB1066



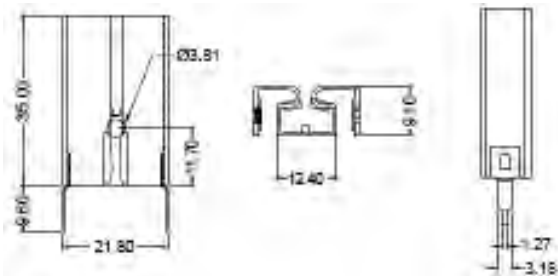
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 19.0        | 12.8       | 12.7        | Aluminum | Black Anodized | TO-220, TO-262  | 27.3                                    | 10.2        | 7.0         | 5.6         | 4.8         |

## ATS-PCB1067



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 19.05       | 21.84      | 9.91        | Aluminum | Black Anodized | TO-220          | 21.2                                    | 10.5        | 8.0         | 5.9         | 4.8         |

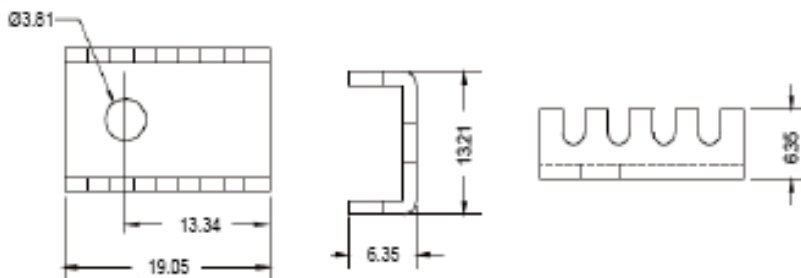
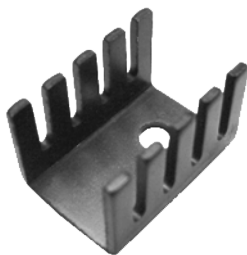
## ATS-PCB1068



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 34.93       | 21.84      | 9.1         | Aluminum | Black Anodized | TO-220          | 16.0                                    | 11.0        | 8.1         | 6.0         | 4.8         |

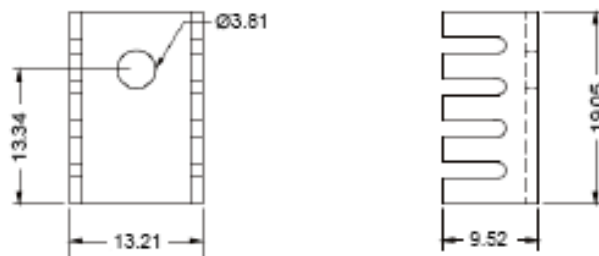
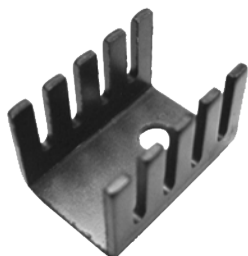


## ATS-PCB1069



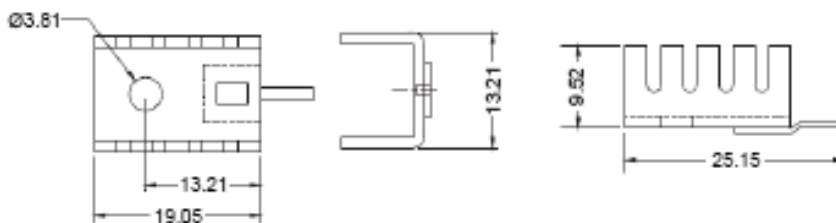
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 19.05       | 13.21      | 6.35        | Aluminum | Black Anodized | TO-220          | 32.0                                    | 15.8        | 11.2        | 9.2         | 7.8         |

## ATS-PCB1070



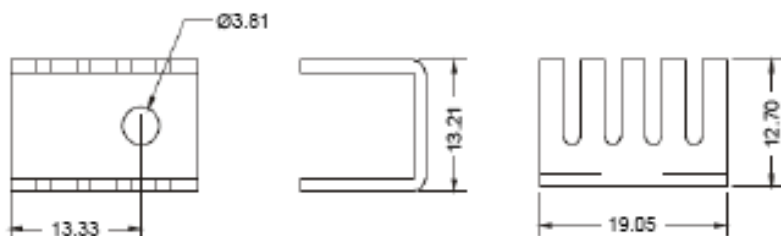
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 19.05       | 13.21      | 9.52        | Aluminum | Black Anodized | TO-220          | 25.9                                    | 15.8        | 11.2        | 9.2         | 7.8         |

## ATS-PCB1071



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 19.05       | 13.21      | 9.52        | Aluminum | Black Anodized | TO-220          | 25.9                                    | 15.6        | 11.0        | 9.0         | 7.6         |

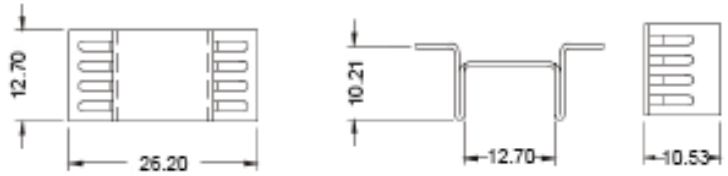
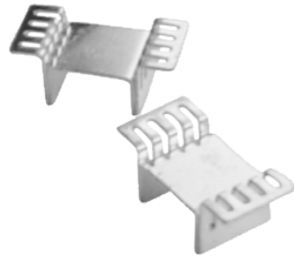
## ATS-PCB1072



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 19.05       | 13.21      | 12.7        | Aluminum | Black Anodized | TO-220          | 24.4                                    | 9.5         | 7.0         | 6.3         | 6.0         |

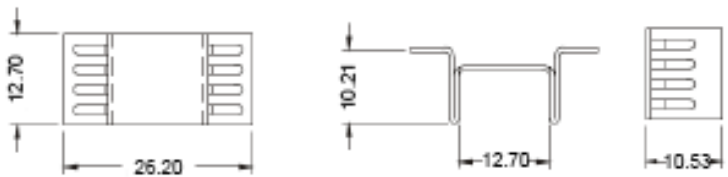
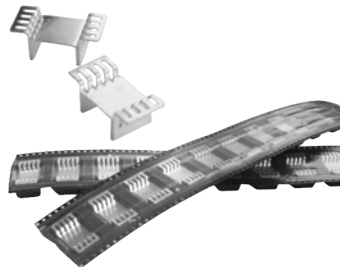


## ATS-PCB1073



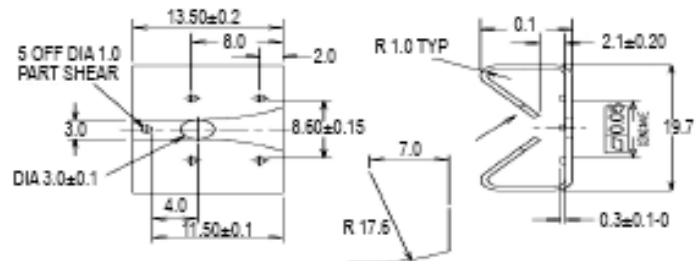
| Length (mm) | Width (mm) | Height (mm) | Material | Finish     | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|------------|-----------------|---|-------------|-------------|-------------|-------------|
| 12.7        | 26.2       | 10.21       | Copper   | Tin Plated | TO-263          | 18.0                                    | 9.5         | 6.8         | 5.2         | 5.0         |

## ATS-PCB1074



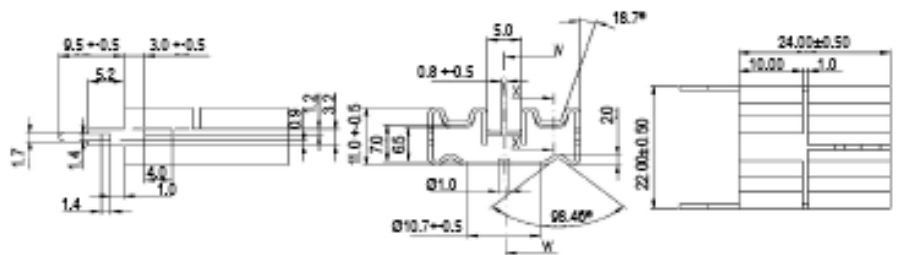
| Length (mm) | Width (mm) | Height (mm) | Material | Finish     | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|------------|-----------------|---|-------------|-------------|-------------|-------------|
| 12.7        | 26.2       | 10.21       | Copper   | Tin Plated | TO-263          | 18.0                                    | 9.5         | 6.8         | 5.2         | 5.0         |

## ATS-PCBT1075



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 13.2        | 19.7       | 8.1         | Aluminum | Black Anodized | TO-126          | 35.8                                    | 25.0        | 17.0        | 14.0        | 12.0        |

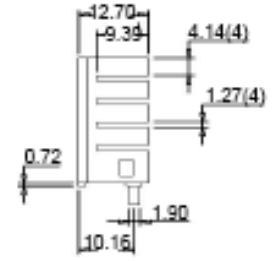
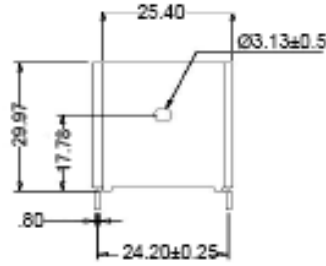
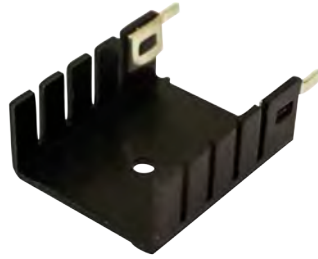
## ATS-PCBT1076



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 24.0        | 22.0       | 11.0        | Aluminum | Black Anodized | TO-220          | 17.3                                    | 15.0        | 10.5        | 9.8         | 9.4         |

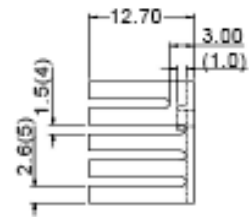
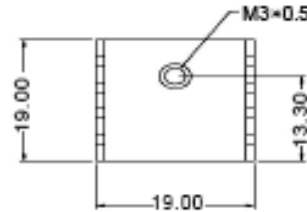


## ATS-PCBT1077



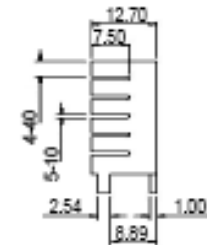
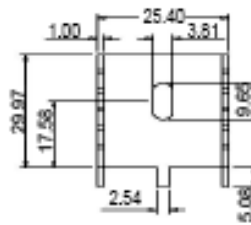
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 29.97       | 25.4       | 12.7        | Aluminum | Black Anodized | TO-220          | 12.5                                    | 7.3         | 5.3         | 4.8         | 4.1         |

## ATS-PCBT1078



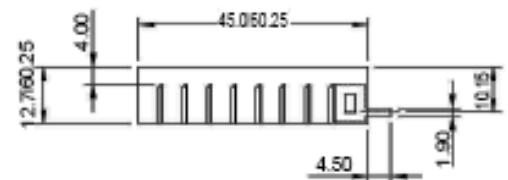
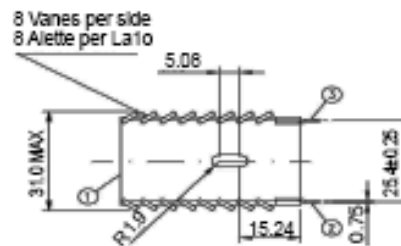
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 19.0        | 19.0       | 12.7        | Aluminum | Black Anodized | TO-220          | 22.0                                    | 8.9         | 5.9         | 4.2         | 4.0         |

## ATS-PCBT1079



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 29.97       | 25.4       | 12.7        | Aluminum | Black Anodized | TO-220          | 13.0                                    | 7.1         | 4.8         | 3.9         | 3.4         |

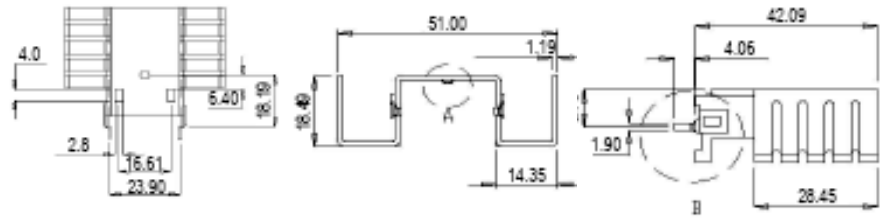
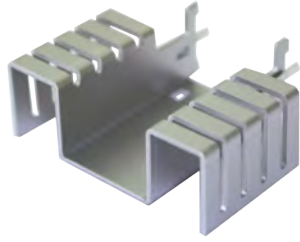
## ATS-PCBT1080



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 45.0        | 31.0       | 12.7        | Aluminum | Black Anodized | TO-218, TO-220  | 13.0                                    | 9.0         | 7.0         | 7.0         | 7.0         |

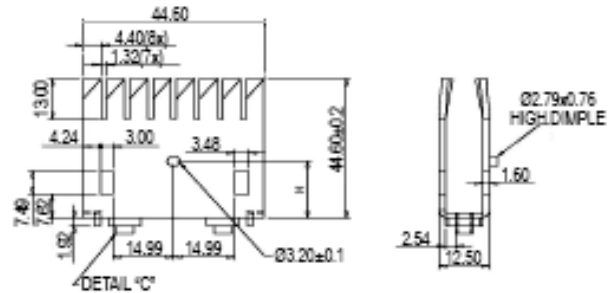
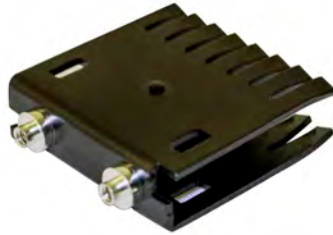


## ATS-PCBT1081



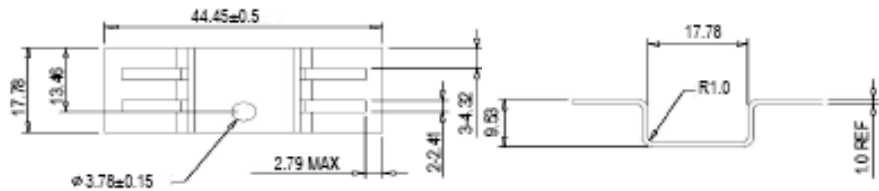
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 42.1        | 51.0       | 18.5        | Aluminum | Black Anodized | TO-220          | 6.7                                     | 1.8         | 1.2         | 0.8         | 0.6         |

## ATS-PCBT1082



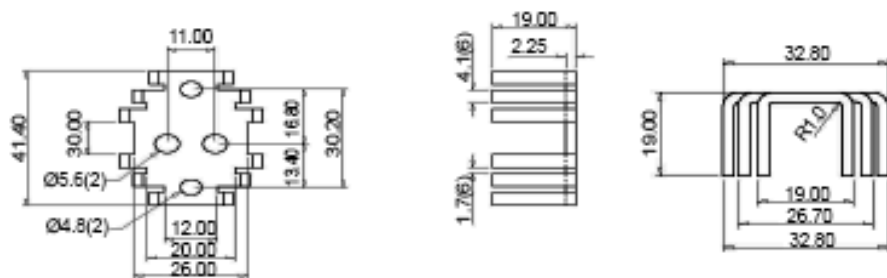
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 44.6        | 12.5       | 44.6        | Aluminum | Black Anodized | TO-218          | 6.3                                     | 2.1         | 1.3         | 0.9         | 0.7         |

## ATS-PCBT1083



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 17.78       | 44.45      | 9.53        | Aluminum | Black Anodized | TO-220          | 17.0                                    | 6.6         | 4.9         | 3.5         | 3.0         |

## ATS-PCBT1084

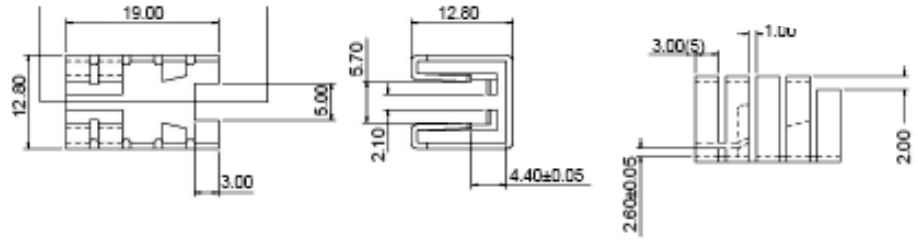


| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 41.4        | 32.8       | 19.0        | Aluminum | Black Anodized | TO-3            | 13.5                                    | 4.4         | 3.1         | 2.1         | 1.5         |



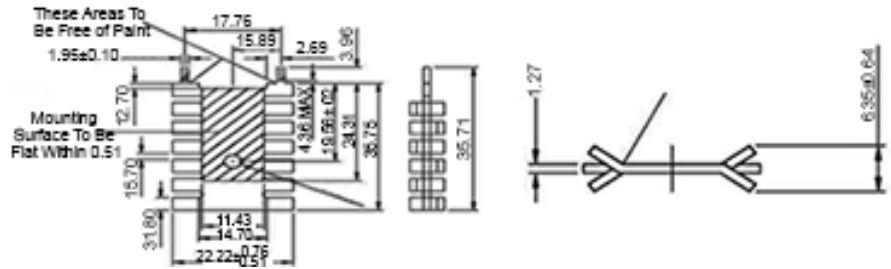


## ATS-PCBT1085



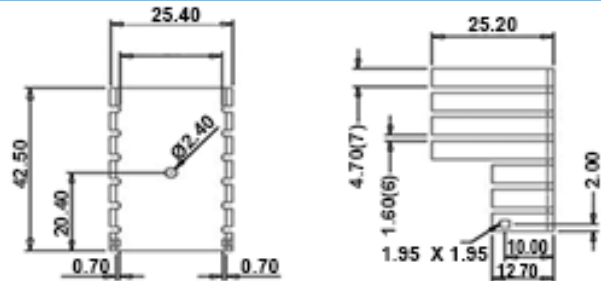
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 19.0        | 12.8       | 12.8        | Aluminum | Black Anodized | TO-220          | 27.3                                    | 4.4         | 3.1         | 2.1         | 1.5         |

## ATS-PCBT1086



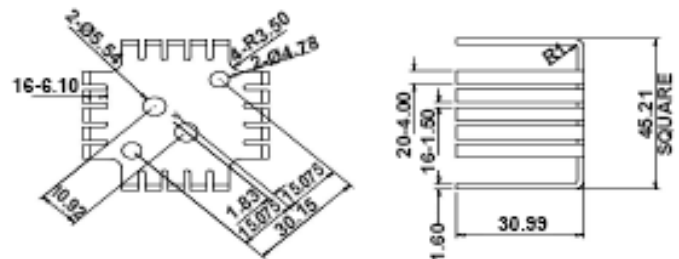
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 31.75       | 22.22      | 6.35        | Aluminum | Black Anodized | TO-220          | 22.0                                    | 9.5         | 6.3         | 4.8         | 3.6         |

## ATS-PCBT1087



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 42.5        | 25.4       | 25.2        | Aluminum | Black Anodized | TO-220          | 10.0                                    | 4.4         | 3.6         | 3.0         | 2.7         |

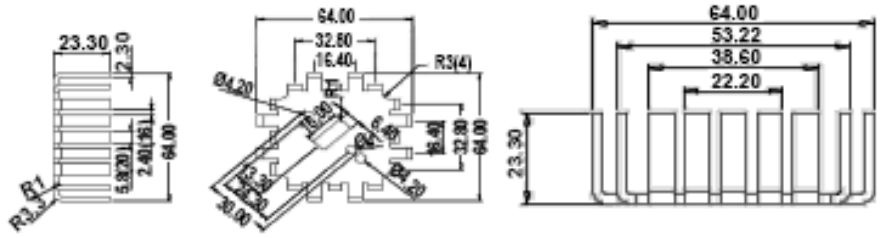
## ATS-PCBT1088



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 45.21       | 45.21      | 30.99       | Aluminum | Black Anodized | TO-3            | 6.0                                     | 2.6         | 1.8         | 1.4         | 1.3         |

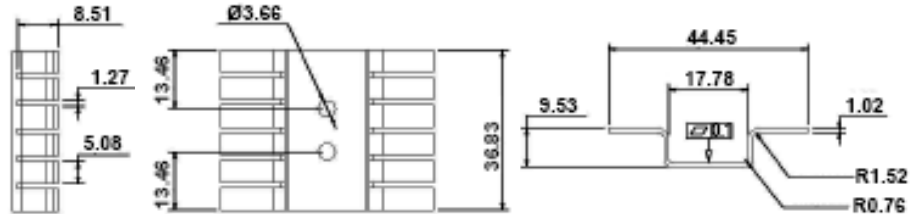


## ATS-PCBT1089



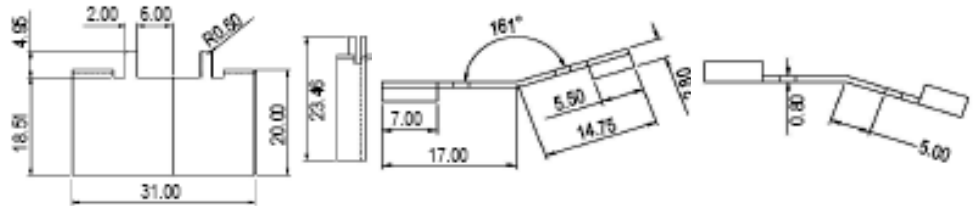
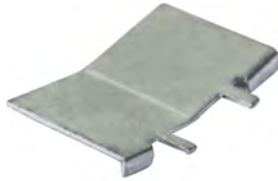
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 64.0        | 64.0       | 23.3        | Aluminum | Black Anodized | TO-3            | 6.0                                     | 2.6         | 1.8         | 1.4         | 1.3         |

## ATS-PCBT1090



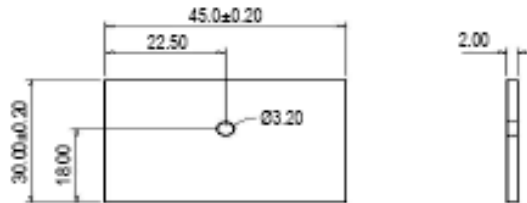
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 36.83       | 44.45      | 9.53        | Aluminum | Black Anodized | TO-220 (DUAL)   | 9.6                                     | 3.0         | 1.7         | 1.0         | 0.9         |

## ATS-PCBT1091



| Length (mm) | Width (mm) | Height (mm) | Material | Finish     | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|------------|-----------------|---|-------------|-------------|-------------|-------------|
| 20.0        | 31.0       | 0.8         | Steel    | Tin Plated | TO-220          | 25.0                                    | 13.0        | 11.2        | 10.3        | 9.5         |

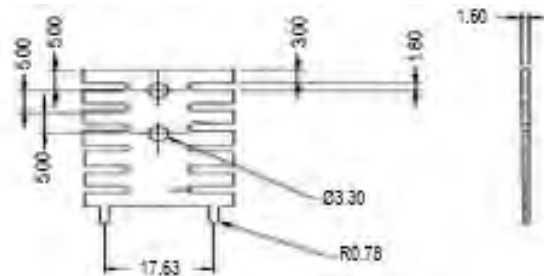
## ATS-PCBT1092



| Length (mm) | Width (mm) | Height (mm) | Material | Finish | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|--------|-----------------|---|-------------|-------------|-------------|-------------|
| 30.0        | 45.0       | 2.0         | Aluminum | None   | TO-220          | 23.0                                    | 11.0        | 9.2         | 8.3         | 7.5         |

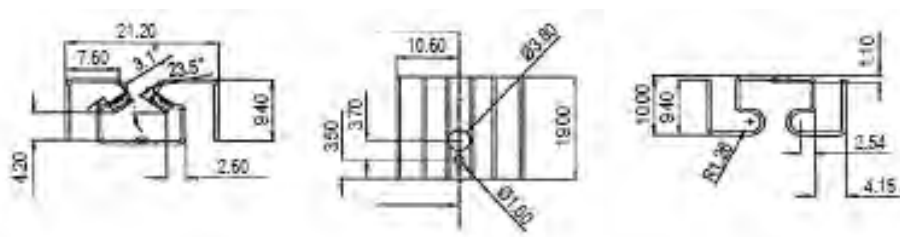


## ATS-PCBT1093



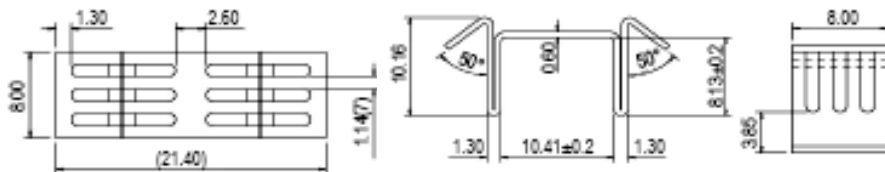
| Length (mm) | Width (mm) | Height (mm) | Material | Finish     | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|------------|-----------------|---|-------------|-------------|-------------|-------------|
| 31.8        | 23.2       | 1.05        | Copper   | Tin Plated | TO-220          | 23.0                                    | 14.0        | 10.7        | 8.6         | 7.7         |

## ATS-PCBT1094



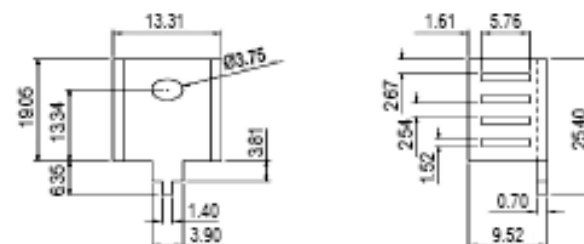
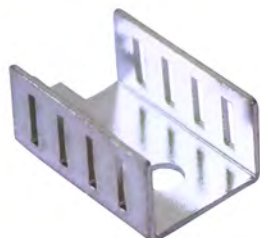
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 19.0        | 21.2       | 10.0        | Aluminum | Black Anodized | TO-220          | 21.2                                    | 11.2        | 8.4         | 6.0         | 5.0         |

## ATS-PCBT1095



| Length (mm) | Width (mm) | Height (mm) | Material | Finish     | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|------------|-----------------|---|-------------|-------------|-------------|-------------|
| 8.0         | 21.4       | 10.16       | Copper   | Tin Plated | TO-252          | 28.0                                    | 21.0        | 16.0        | 12.5        | 11.0        |

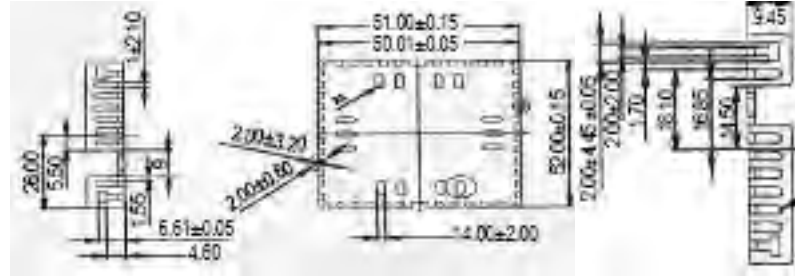
## ATS-PCBT1096



| Length (mm) | Width (mm) | Height (mm) | Material | Finish     | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|------------|-----------------|---|-------------|-------------|-------------|-------------|
| 19.05       | 13.31      | 9.52        | Steel    | Tin Plated | TO-220          | 35.7                                    | 14.0        | 8.7         | 6.6         | 5.6         |

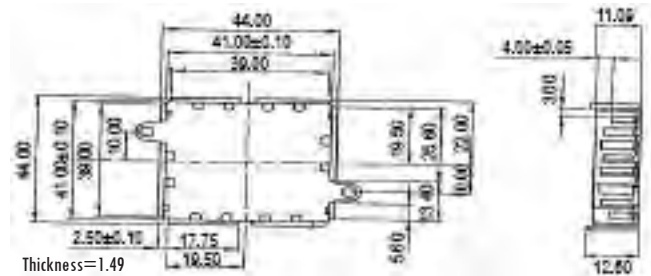


**ATS-PCBT1097**



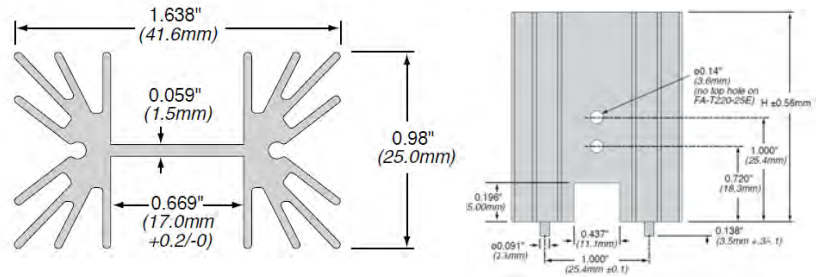
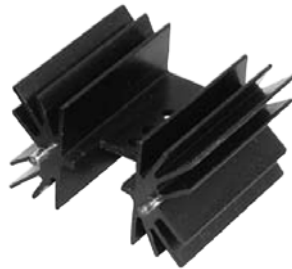
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 58.0        | 52.0       | 1.5         | Aluminum | Black Anodized | TO-220          | 21.0                                    | 12.2        | 9.5         | 8.0         | 7.3         |

**ATS-PCBT1098**



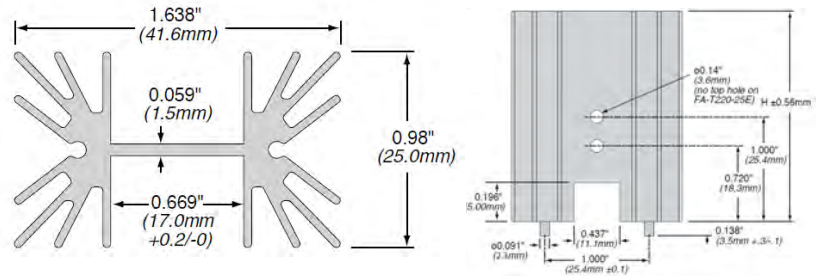
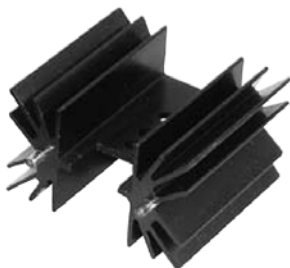
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|-----------------|---|-------------|-------------|-------------|-------------|
| 44.0        | 44.0       | 1.5         | Aluminum | Black Anodized | TO-220          | 22.0                                    | 13.0        | 10.2        | 8.5         | 7.6         |

**ATS-PCBM1099**



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled        | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|------------------------|---|-------------|-------------|-------------|-------------|
| 25.4        | 46.1       | 25          | Aluminum | Black Anodized | TO-218, TO-220, TO-247 | 4.8                                     | 4.2         | 3           | 2.3         | 1.8         |

**ATS-PCBM1100**

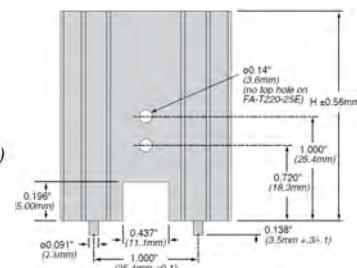
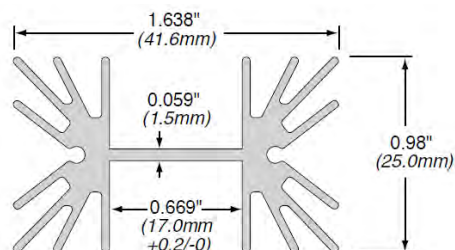
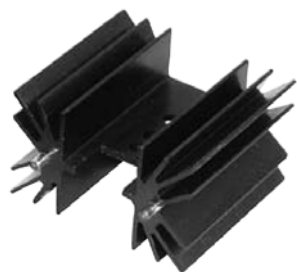


| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled        | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|------------------------|---|-------------|-------------|-------------|-------------|
| 38.1        | 41.6       | 25          | Aluminum | Black Anodized | TO-218, TO-220, TO-247 | 3.9                                     | 3.1         | 2.1         | 1.5         | 1.3         |



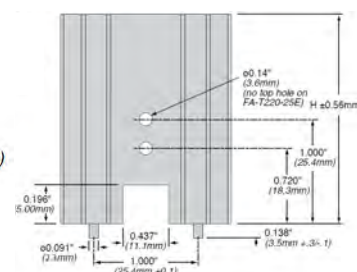
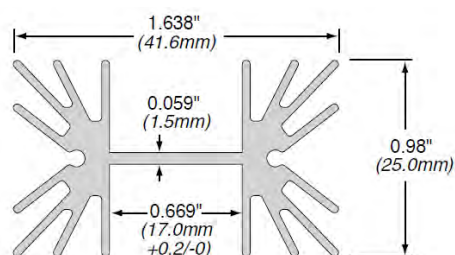
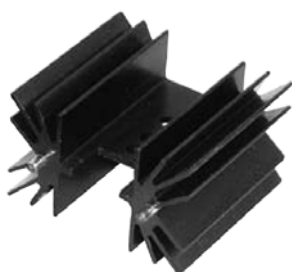


## ATS-PCBM1101



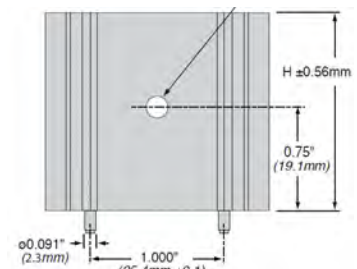
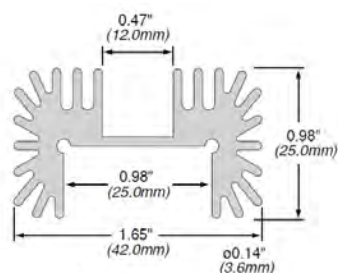
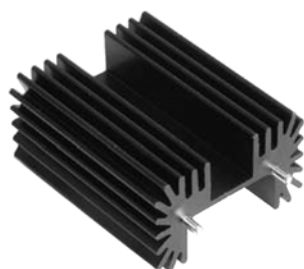
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled      | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|----------------------|---|-------------|-------------|-------------|-------------|
| 50.8        | 41.6       | 25          | Aluminum | Black Anodized | TO-218,TO-220,TO-247 | 3.5                                     | 2.5         | 1.6         | 1.2         | 1           |

## ATS-PCBM1102



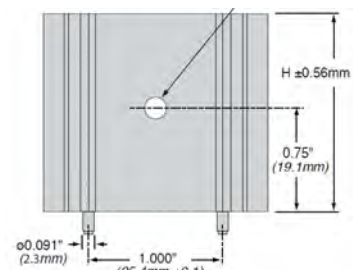
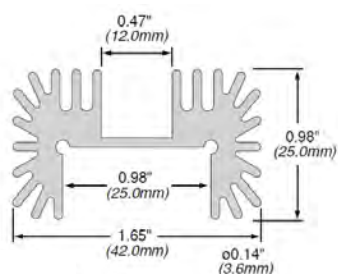
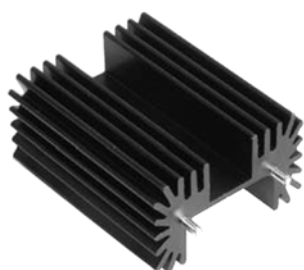
| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled      | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|----------------------|---|-------------|-------------|-------------|-------------|
| 63.5        | 41.6       | 25          | Aluminum | Black Anodized | TO-218,TO-220,TO-247 | 3.1                                     | 2.5         | 1.6         | 1.2         | 1           |

## ATS-PCBM1103



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled      | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|----------------------|---|-------------|-------------|-------------|-------------|
| 25.4        | 42         | 25          | Aluminum | Black Anodized | TO-218,TO-220,TO-247 | 4.7                                     | 1.5         | 1.1         | 0.8         | 0.6         |

## ATS-PCBM1104

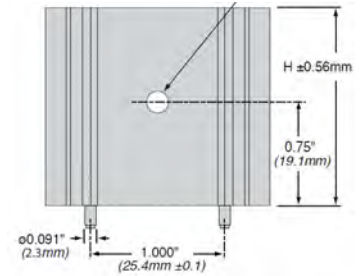
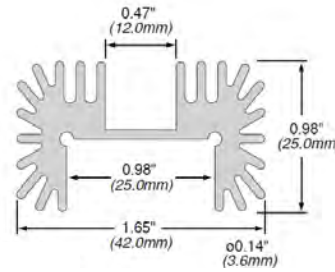
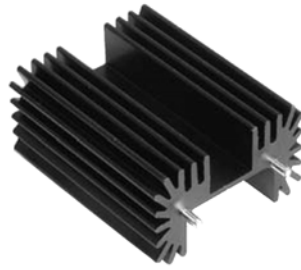


| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled      | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|----------------------|---|-------------|-------------|-------------|-------------|
| 38.1        | 42         | 25          | Aluminum | Black Anodized | TO-218,TO-220,TO-247 | 3.8                                     | 1.4         | 1           | 0.8         | 0.6         |



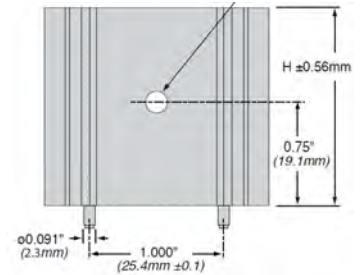
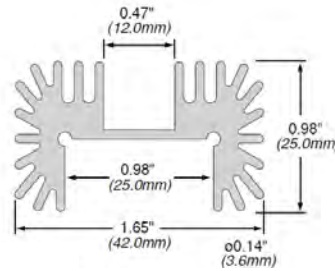
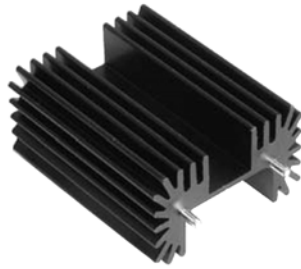


## ATS-PCBM1105



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled      | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|----------------------|---|-------------|-------------|-------------|-------------|
| 50.8        | 42         | 25          | Aluminum | Black Anodized | TO-218,TO-220,TO-247 | 3.4                                     | 1.3         | 0.9         | 0.7         | 0.6         |

## ATS-PCBM1106



| Length (mm) | Width (mm) | Height (mm) | Material | Finish         | Packaged Cooled      | Thermal Resistance (Natural Convection) | R @ 200 LFM | R @ 400 LFM | R @ 600 LFM | R @ 800 LFM |
|-------------|------------|-------------|----------|----------------|----------------------|---|-------------|-------------|-------------|-------------|
| 63.5        | 42         | 25          | Aluminum | Black Anodized | TO-218,TO-220,TO-247 | 3                                       | 1           | 0.7         | 0.6         | 0.5         |

For further technical information, or to place an order, please contact  
ATS at **781-760-2800**, [ats-hq@qats.com](mailto:ats-hq@qats.com), or [www.qats.com](http://www.qats.com)