



DYNATRON

The Thermal Solution Architect

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Product Spec Sheet

A18



NEW PRODUCT SPEC SHEET

Application:

- AMD® Ryzen Processor, Socket AM4
- Active Cooler For 1U Server

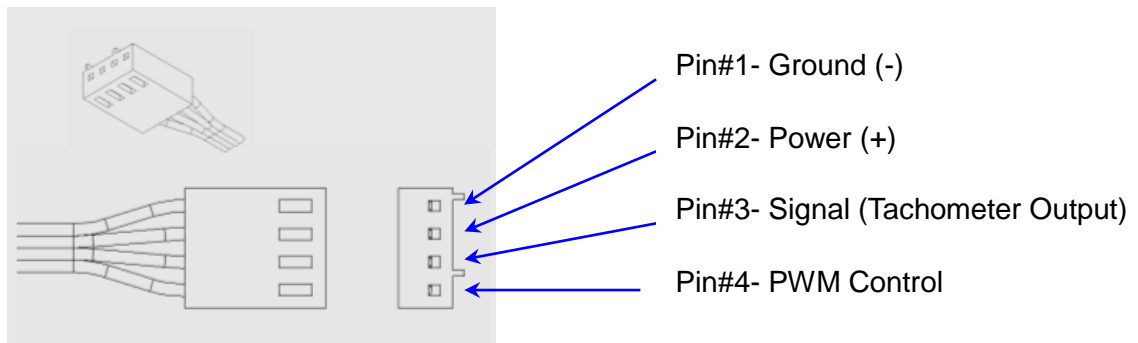
Overall Specification:

- Dimension: 106 x 76 x 27.5mm
- Weight: 502g ± 5g
- Material: Copper1100 with Skived Fins
- Fin Direction Parallel to System Airflow
- Alloy Frame Blower with PWM Function
- Convenient Heat Sink Captive Mounting
- Shin-Etsu 7762 Thermal Grease Pre-Printed
- Backing Plate is included
- Support CPU Power up to 105 Watts Heat Dissipation

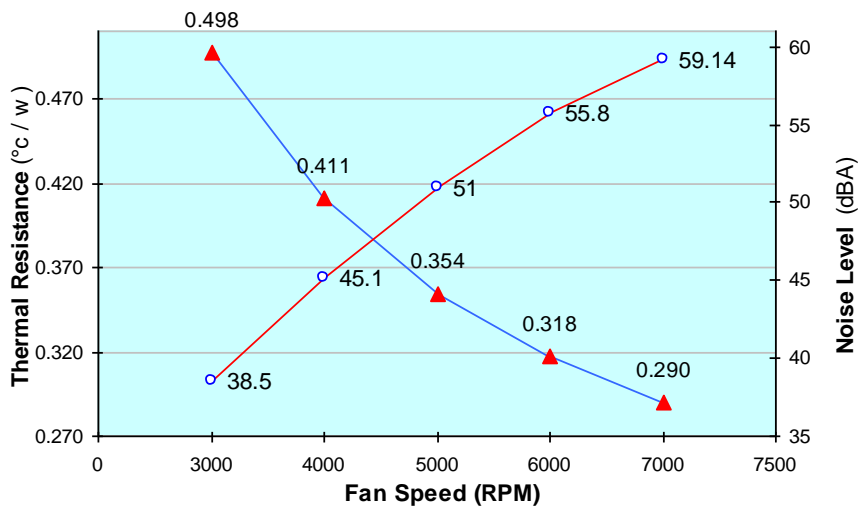
Blower Specification:

- Model Number: DB127015BU - PWM
- Dimension: 70 x 70 x 15 mm
- Bearing Type : Ball, Double
- Rated Voltage: 12V
- Rated Speed:
 - At Duty Cycle 0~20% : 1100 ± 200 RPM
 - At Duty Cycle 50% : 2600 ± 10% RPM
 - At Duty Cycle 100% : 6000 ± 10% RPM
- Rated Input Power:
 - At Duty Cycle 0~20% : 0.6 W
 - At Duty Cycle 50% : 1.2 W
 - At Duty Cycle 100% : 8.8 W

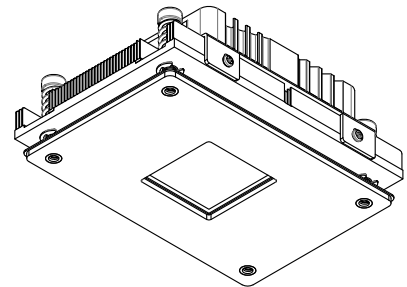
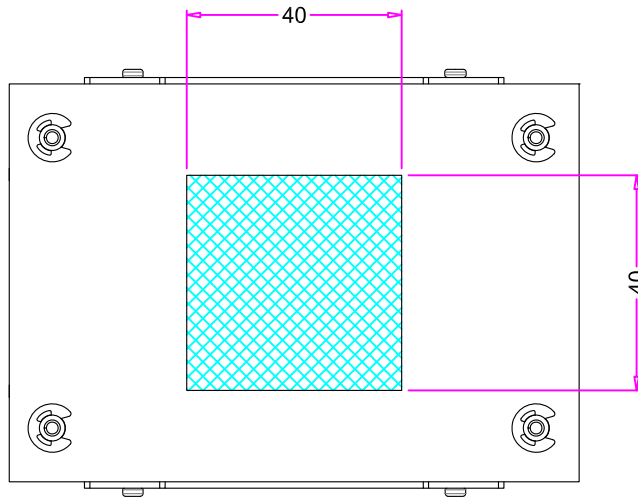
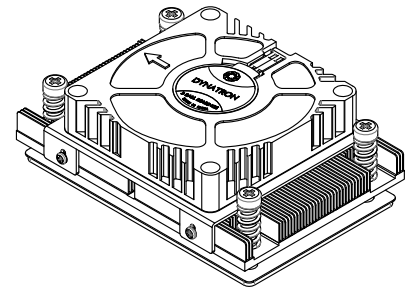
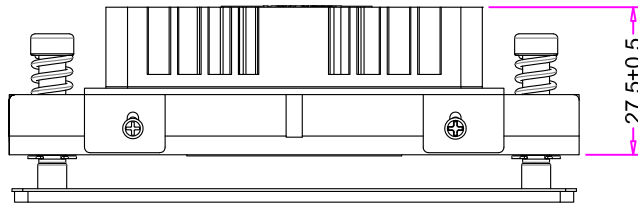
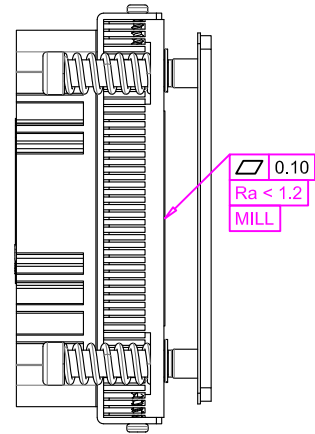
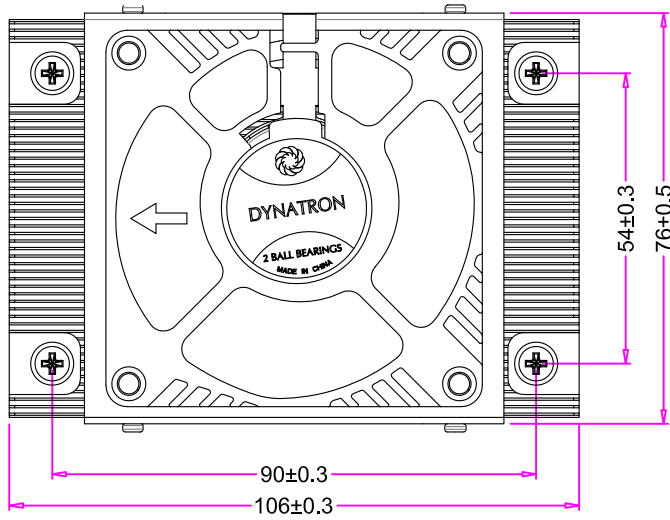
- Rated Airflow:
 - At Duty Cycle 0~20% : 2.5 CFM
 - At Duty Cycle 50% : 5.8 CFM
 - At Duty Cycle 100% : 14.3 CFM
- Rated Static Pressure:
 - At Duty Cycle 0~20% : 1.25 mm-H₂O
 - At Duty Cycle 50% : 7.0 mm-H₂O
 - At Duty Cycle 100% : 50.46 mm-H₂O
- Rated Acoustical Noise:
 - At Duty Cycle 0~20% : 19.1 dBA
 - At Duty Cycle 50% : 34.2 dBA
 - At Duty Cycle 100% : 53.8 dBA
- Lead Wire Pin Out Diagram :



Active Cooler A18 Cooling Performance VS. Airflow & Acoustical Level:



| REV# | DESCRIPTION | CHECKER | DATE |
|------|----------------------------|---------|----------|
| 0.0 | INITIAL RELEASE | LANG | 03/28/17 |
| 1.0 | CHANGE SCREW SETTING | LANG | 05/15/17 |
| 2.0 | CHANGE TO 4-PIN PWM BLOWER | LANG | 05/30/17 |



Heatsink Bottom View with Backplate Hidden

| 10 | THERMAL GREASE, PRE-PRINT | SHIN-ETSU 7762 | 1 |
|-------|------------------------------------|----------------|------|
| 9 | INSULATOR | PC | 1 |
| 8 | BACKPLATE | SPCC | 1 |
| 7 | C-CLIP | STEEL | 4 |
| 6 | SPRING (50600390) | SUS 304 | 4 |
| 5 | SCREW HEATSINK MOUNTING (50902650) | STEEL | 4 |
| 4 | HEATSINK, SKIVING FIN | COPPER 1100 | 1 |
| 3 | SCREW, BLOWER MOUNTING | STEEL | 4 |
| 2 | BLOWER COVER | SPCC | 1 |
| 1 | BLOWER, DB127015BU-PWM-B, 6000RPM | ALUMINUM FRAME | 1 |
| ITEM# | DESCRIPTION | MATERIAL | QTY. |

| | NAME | DATE |
|---------------|------|------------|
| DRAWN BY | ENGR | 05/30/2017 |
| CHECKED BY | LANG | 05/30/2017 |
| ENG. APPROVED | | |
| MFG. APPROVED | - | - |



DYNATRON CORPORATION

TOP MOTOR

TITLE: 1U Active Cooler **A18**
BOM & Overall Dimension Drawing

CONFIDENTIAL DOCUMENT

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| | |
|-------|----|
| VIEW | |
| UNITS | MM |

DWG. No: **DYN-BD-A18**

REV. **2.0**