DYNATRON

A56

3U Active Air Cooler

PRODUCT SPECIFICATIONS

7/25/24

Model Number: A56

- AMD® Ryzen Processor, Socket AM4 / AM5
- Active Cooler for 3U Server

Overall Specification

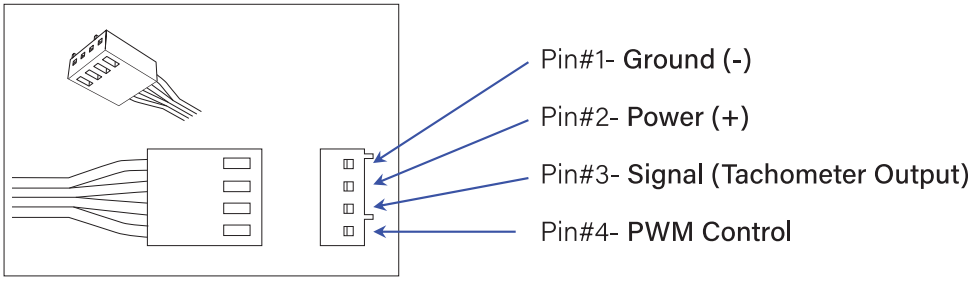
Dimension	107.5 x 78 x 110 mm
Weight	600 g
Material	Aluminum Stacked Fin with Heat Pipes directly contact CPU
Fan	8038 Side-Blow Fan with PWM Function
Mounting Method	Convenient Heat Sink Screw Captive Mounting
Thermal Grease	Shin-Etsu X23-8079-2 pre-printed
TDP	Support CPU Power over 170 Watts Heat Dissipation @28C ambient temperature

Fan Specification

Model Number	DF128038BX - PWMG
Dimension	80 x 80 x 38 mm
Bearing	Double Ball
Rated Voltage	12V
Rated Speed	At Duty Cycle 0~20%: 2400 ± 10% RPM At Duty Cycle 50%: 4800 ± 10% RPM At Duty Cycle 100%: 8000 RPM Min.
Input Power	At Duty Cycle 0~20%: 1.2 W At Duty Cycle 50%: 5.52 W At Duty Cycle 100%: 24.72 W
Maximum Airflow	At Duty Cycle 0~20%: 35.52 CFM At Duty Cycle 50%: 67.24 CFM At Duty Cycle 100%: 115.61 CFM
Rated Static Pressure	At Duty Cycle 0~20%: 1.39 mm-H2O At Duty Cycle 50%: 5.97 mm-H2O At Duty Cycle 100%: 34.06 mm-H2O
Acoustical Noise	At Duty Cycle 0~20%: 25.63 dBA At Duty Cycle 50%: 47.85 dBA At Duty Cycle 100%: 64.4 dBA
Lead Wire Pin Out	Pin#1- Black(-) Pin#2- Yellow(+) Pin#3- Green(Tachometer/ Signal Output) Pin#4- Blue (PWM)

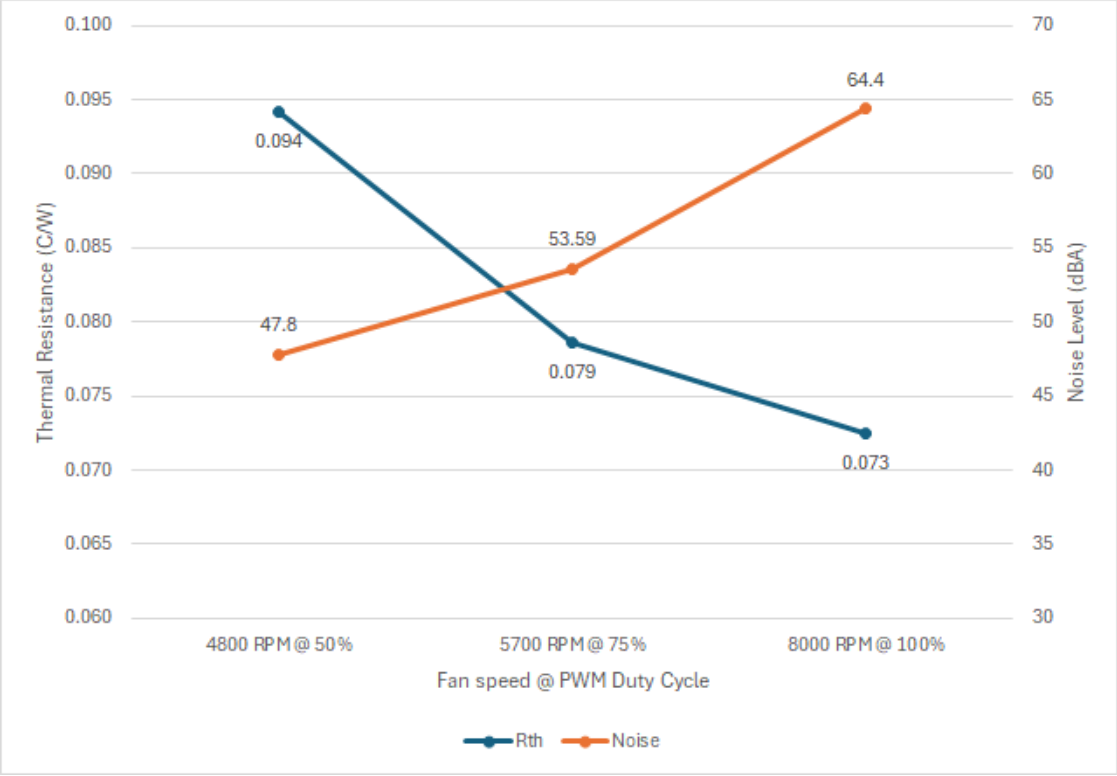
© 2024 by Dynatron Corporation.

Lead Wire Pin Out Diagram :



Performance Chart: Active Cooler A56 Thermal Resistance

Thermal Resistance vs. Fan Speed (at Specific PWM Duty Cycle)

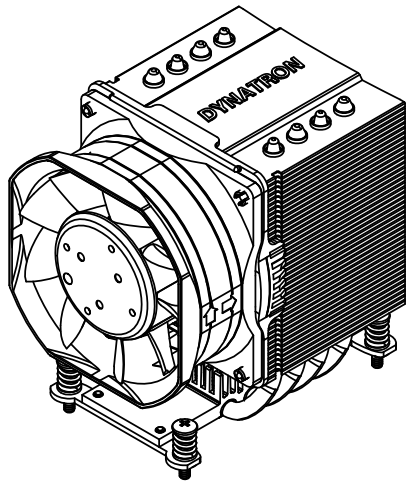


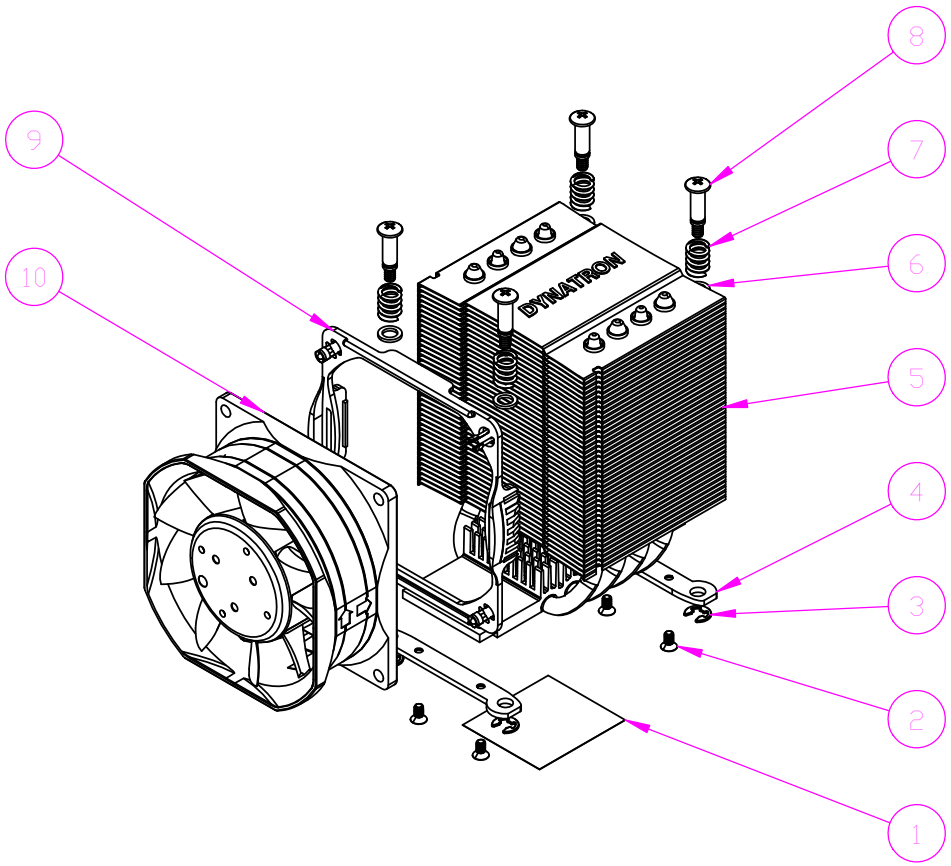
© 2024 by Dynatron Corporation.

CONFIDENTIAL DOCUMENT

THIS DRAWING CONTAINS INFORMATION PROPRIETARY TO DYNATRON CORPORATION AND DYNAEON INDUSTRIAL CO., LTD. ANY REPRODUCTION, DISCLOSURE, OR USE OF THIS DRAWING IS EXPRESSLY PROHIBITED EXCEPT AS DYNATRON CORPORATION AND DYNAEON INDUSTRIAL CO., LTD. MAY OTHERWISE AGREE TO IN WRITING.

REV#	DESCRIPTION	CHECKER	DATE
0.0	INITIAL RELEASE	JUN	01/02/23





ITEM #	DESCRIPTION	MATERIAL	QTY.
10	FAN , DF128038BX-PWM, 8000RPM	PLASTIC	1
9	FAN BRACKET	PLASTIC	1
8	SCREW, RETENTION	STEEL	4
7	SPRING	STEEL	4
6	WASHER	STEEL	4
5	HEATSINK	AL BASE, AL FINS, CU HEAT PIPES	1
4	RETENTION	STEEL	2
3	C-CLIP	STEEL	4
2	SCREW, HEATSINK	STEEL	4
1	THERMAL GREASE	SHIN-ETSU X23-8079-2	N/A

	DATE	NAME
DRAWN	1/5/2024	JUN
CHECKED	1/5/2024	JUN
ENG.APPR.		
MFG.APPR.		

DYNATRON CORPORATION
TOP MOTOR

TITLE:
3U COOLER A56
BOM & exploded Assembly Drawing

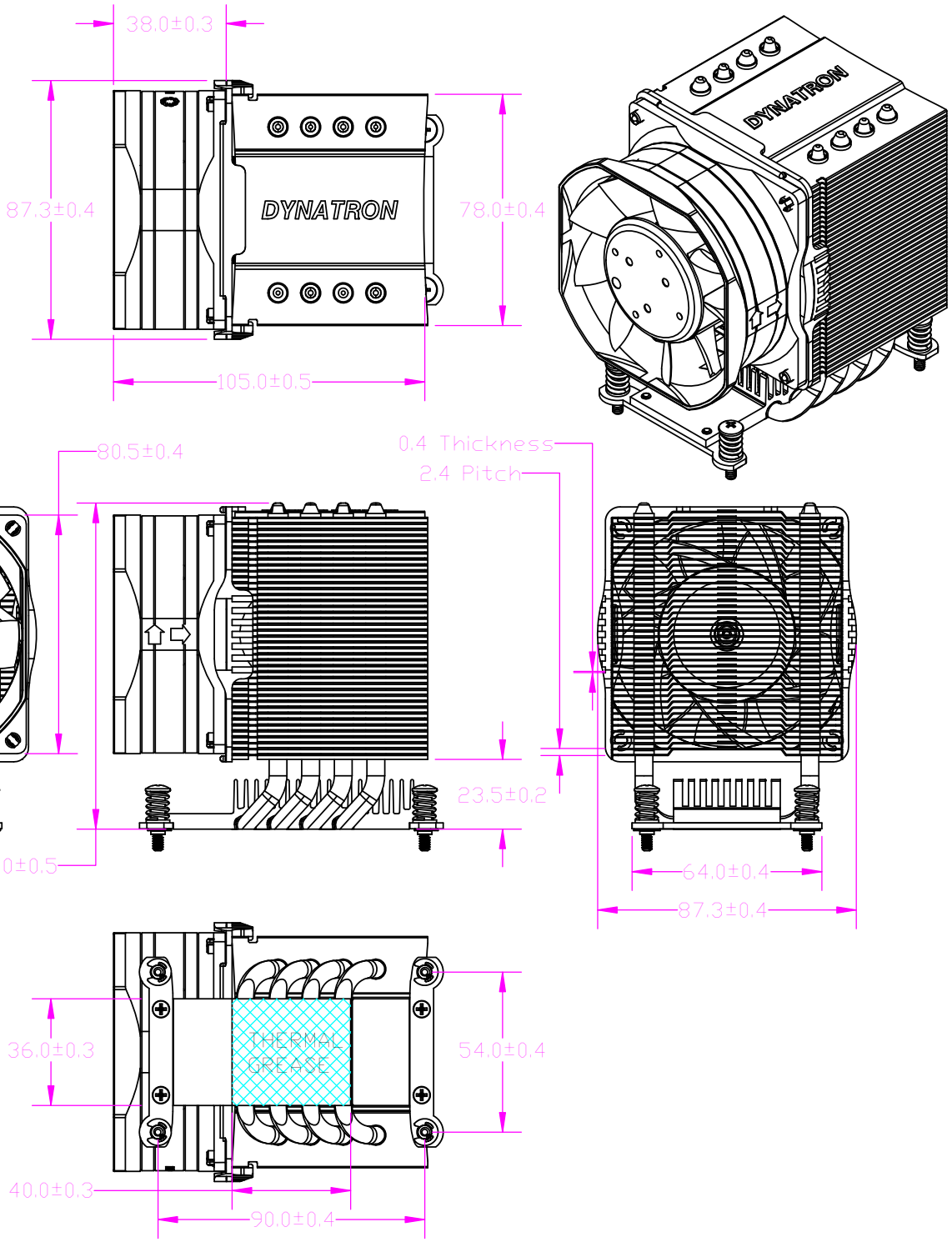
COMMENTS:

DWG. NO.
DYN-EP-A56

REV
0.0

NOTES:
THE FIGURE IS FOR REFERENCE ONLY, AND NOT FOR SCALE

REV#	DESCRIPTION	CHECKER	DATE
0.0	INITIAL RELEASE	JUN	01/02/24



	NAME	DATE
DRAWN BY	JUN	1/5/2024
CHECKED BY	JUN	1/5/2024
ENG.APPROVED		
MFG.APPROVED		

CONFIDENTIAL DOCUMENT
THIS DRAWING CONTAINS INFORMATION PROPRIETARY TO DYNATRON CORPORATION AND DYNAEON INDUSTRIAL CO., LTD. ANY REPRODUCTION, DISCLOSURE, OR USE OF THIS DRAWING IS EXPRESSLY PROHIBITED EXCEPT AS DYNATRON CORPORATION AND DYNAEON INDUSTRIAL CO., LTD. MAY OTHERWISE AGREE TO IN WRITING.

TOP MOTOR

DYNATRON CORPORATION

TITLE: 3U AIR COOLER A56
OVERALL DIMENSION DRAWING

VIEW		DWG. No:	REV.
UNITS	MM	DYN-BD-A56	0.0