

A55

3U Active Air Cooler

PRODUCT SPECIFICATIONS

Specification Version: 07/01/2023

(Specifications are subject to change without notice)

Model Number: A55

- Recommend for AMD® CPU as following
 - AMD® EPYC™ Processor, Socket SP6
- Active Air Cooler for 3U Server and Up

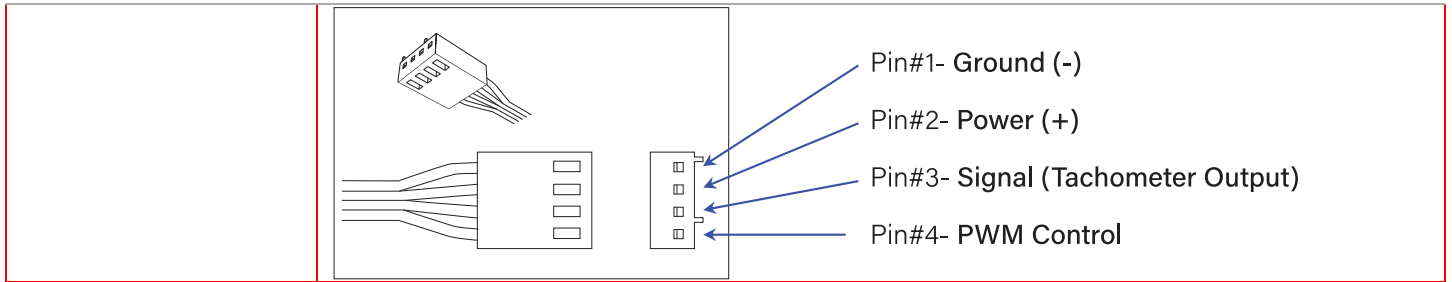
Overall Specification

Dimension	120.0 x 82.0 x 110.2 mm
Weight	656g
Material	Aluminum Heatsink with Heatpipe Embedded
Thermal Grease	Shin-Etsu 7762 or Equivalent
TDP	SP6: 225W TR5: 350W

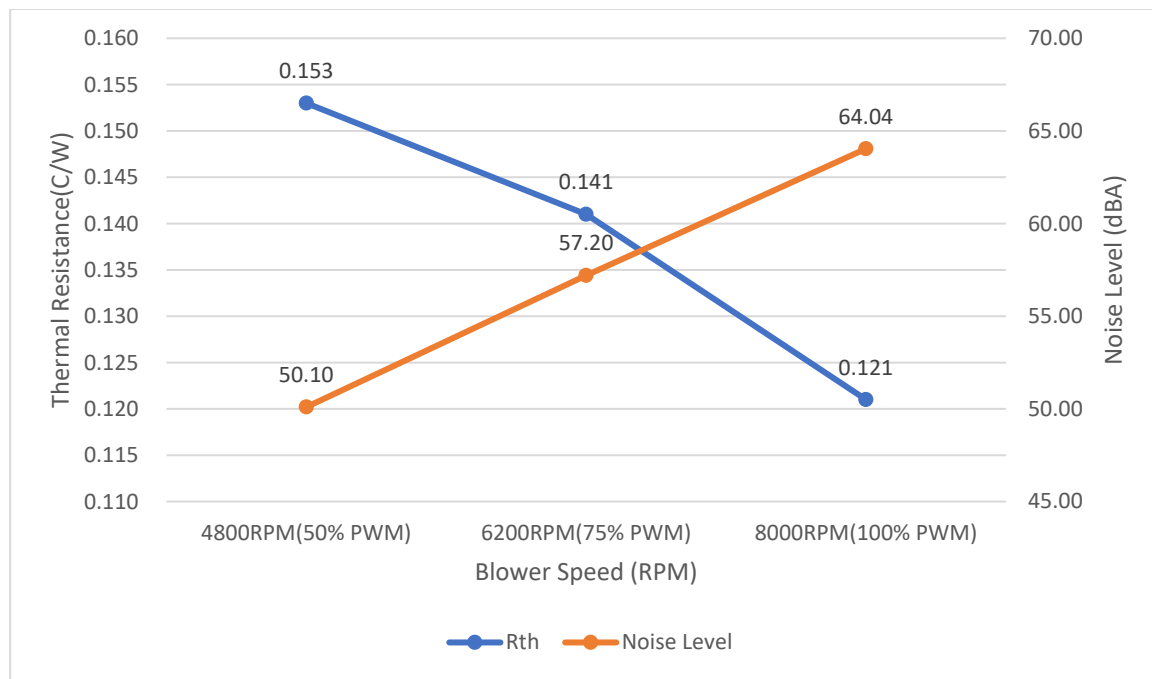
Cooling Fan Specification

Model Number	DF128038BX-PWMG
Dimension	80 x 80 x 38mm
Bearing	Double Ball
Rated Voltage	DC 12V
Rated Speed	At Duty Cycle 0~20%: 2400± 200 RPM At Duty Cycle 50%: 4800± 10% RPM At Duty Cycle 100%: 8000±10% RPM
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%: 3.45 mm-H2O At Duty Cycle 50%: 13.6 mm-H2O At Duty Cycle 100%: 38.3 mm-H2O
Acoustical Noise	At Duty Cycle 0~20%: 25.63 dBA At Duty Cycle 50%: 47.85 dBA At Duty Cycle 100%: 64.40 dBA
Lead Wire Pin Out	Pin#1- Black(-) Pin#2- Yellow(+) Pin#3- Green(Tachometer/ Signal Output) Pin#4- Blue (PWM)

A55 | Socket SP6



Performance Chart: Active Cooler A55 Thermal Resistance Thermal Resistance vs. Fan Speed (at Specific PWM Duty Cycle)



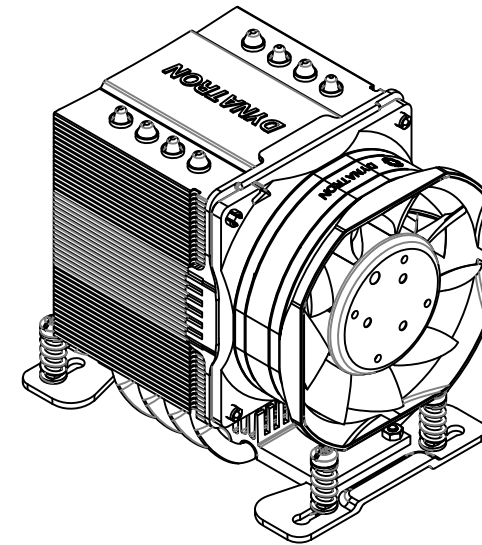
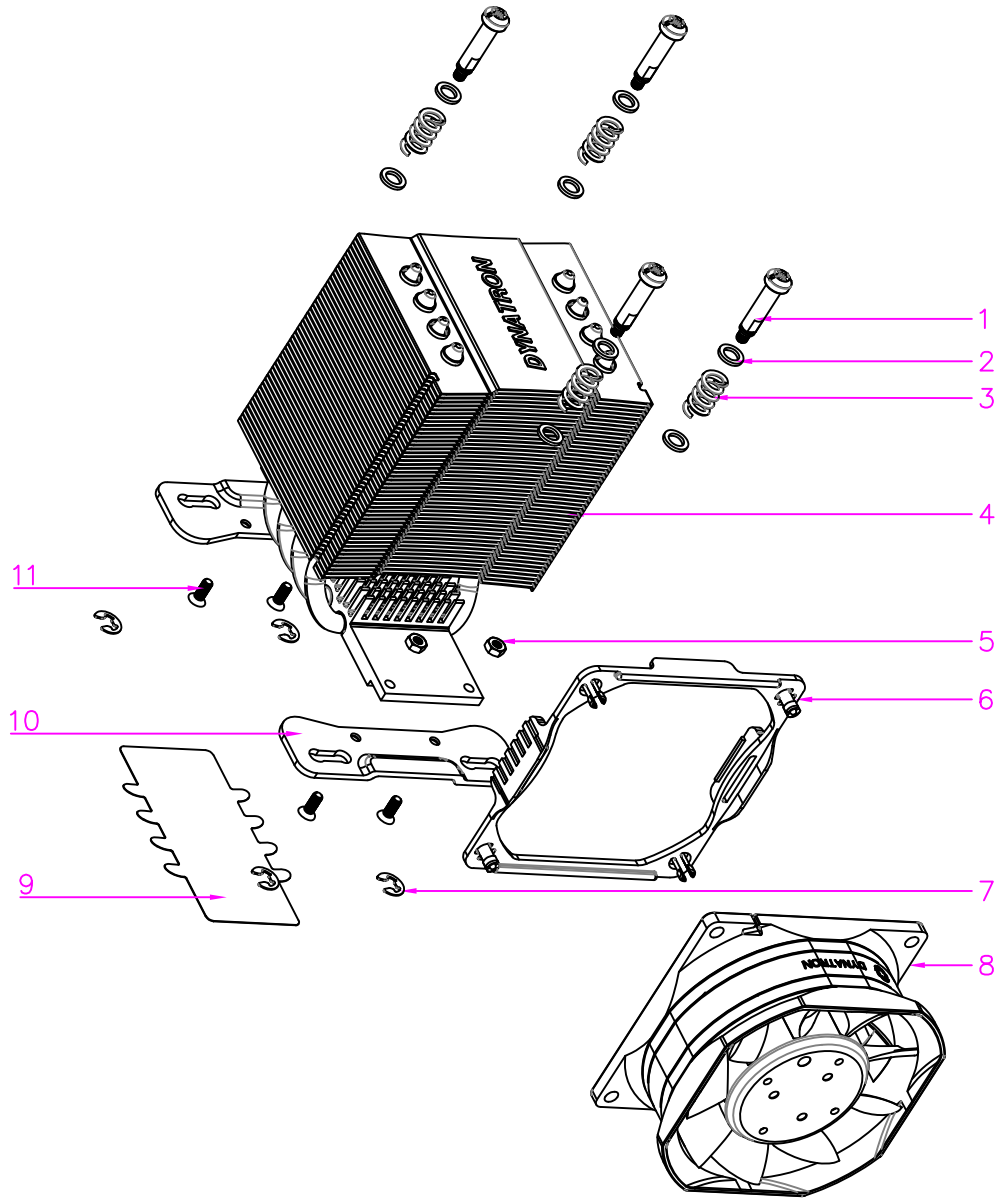
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1 2 3 4 5 6 7 8

CONFIDENTIAL DOCUMENT

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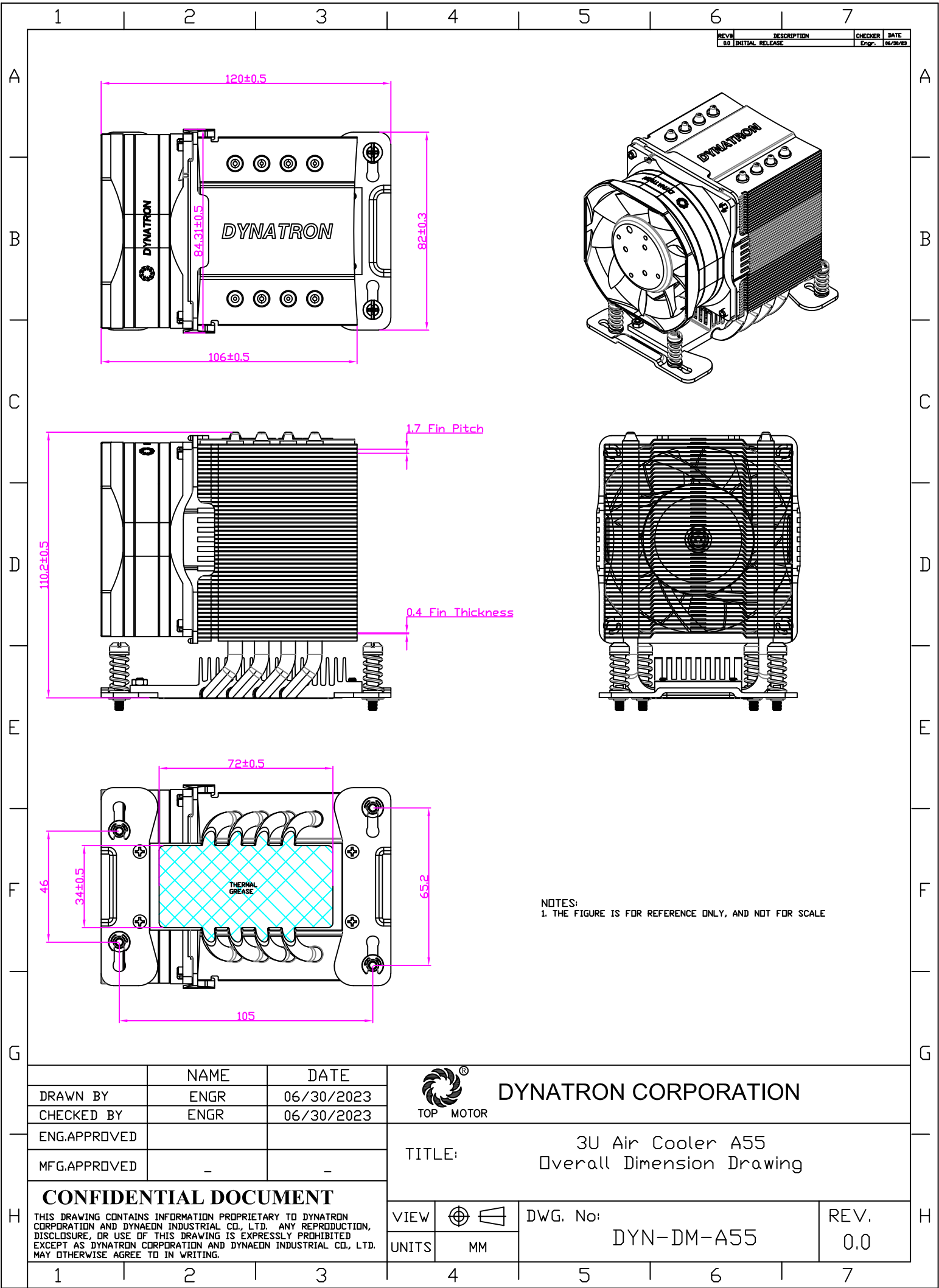
REV#	DESCRIPTION	CHECKER	DATE
0.0	INITIAL RELEASE	Engr.	06/30/23
0.1	THERMAL GREASE SIZE UPDATE	Engr.	07/01/23



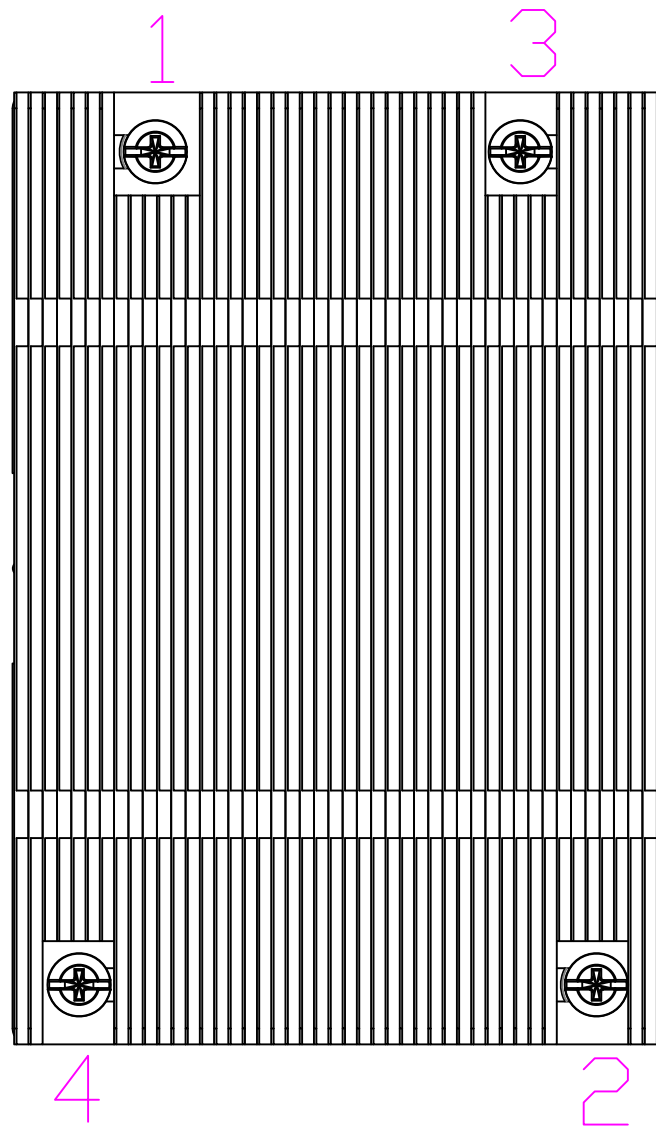
11	SCREW, BRACKET, M3x0.5	STEEL	4
10	HEATSINK BRACKET	STEEL	2
9	THERMAL GREASE	SHIN-ETSU X-23-7762	N/A
8	FAN, DF128038BX-PWMG, 8000RPM	PBT	1
7	HEATSINK CLIP	STEEL	4
6	FAN MOUNTING BRACKET	PBT	1
5	NUT, BRACKET, M3x0.5	STEEL	2
4	HEATSINK	HEAT PIPES, AL BASE, AL FINS	1
3	HEATSINK SPRING (0890)	SWP	4
2	WASHER	STEEL	8
1	HEATSINK SCREW (4380)	STEEL	4
ITEM #	DESCRIPTION	MATERIAL	QTY.

	DATE	NAME	 DYNATRON CORPORATION	
DRAWN	07/01/23	Engr.		
CHECKED	07/01/23	Engr.	TITLE: 1U Air Cooler A55 BOM & Exploded Assembly Drawing	
ENG. APPR.				
MFG. APPR.				
Q.A.				
COMMENTS:			DWG. No: DYN-EP-A55	REV 0.1

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



SOCKET SP6 COOLER INSTALLATION INSTRUCTION



HEATSINK ASSEMBLY
ORDER 1,2,3,4

HEATSINK DISASSEMBLY
ORDER 4,3,2,1

TORQUE = 12.5 - 15.1 KG -CM

ALL SCREWS SHOULD BE
TIGHTENED/RELEASED EVENLY, AVOIDING
TIGHTENING/RELEASING ANY SCREWS TO THE
BOTTOM/TOP AT ONCE

Publication History:

07/01/2023: Thermal Grease Size Update

06/30/2023: Initial Release

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