



A50

3U Active Air Cooler

PRODUCT SPECIFICATIONS

Speficiation Version: 02/23/2023

(Specifications are subject to change without notice)

Model Number: A50

- Recommend for AMD® CPU as following
 - AMD® Ryzen® Threadripper Processor, Socket sWRX, sTRX4, TR4,
 - AMD® Eypc Processor Socket SP3
- Active Air Cooler for 3U Server and Workstation

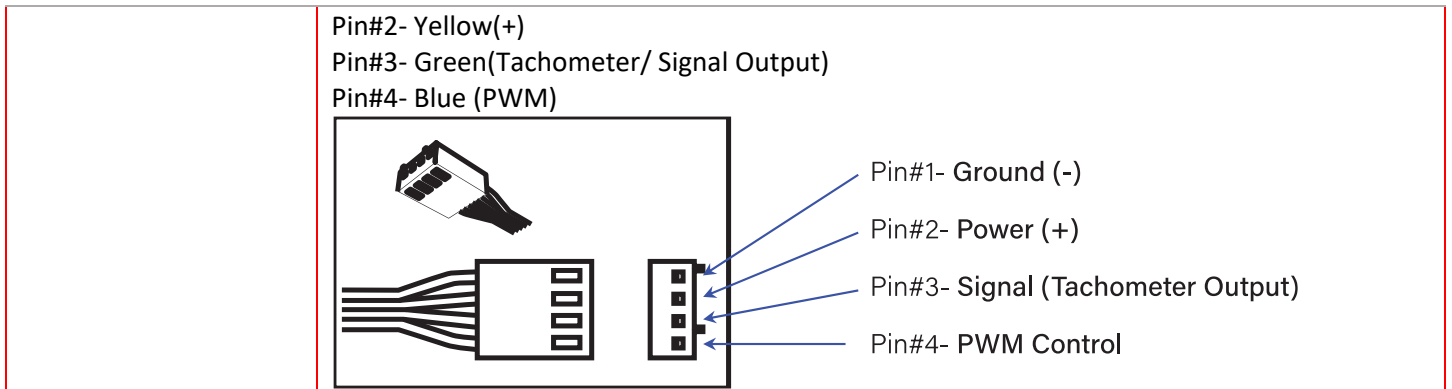
Overall Specification

Dimension	119 x 82 x 110 mm
Weight	600 g
Material	Aluminum Heatsink with Heatpipe Embedded
Fan	8038 Axial PWM fan for Heat Exhausting
Mounting Method	Convenient Heat Sink Screw Captive Mounting
Thermal Grease	Shin-Etsu 7762 Pre-Printed
TDP	280W

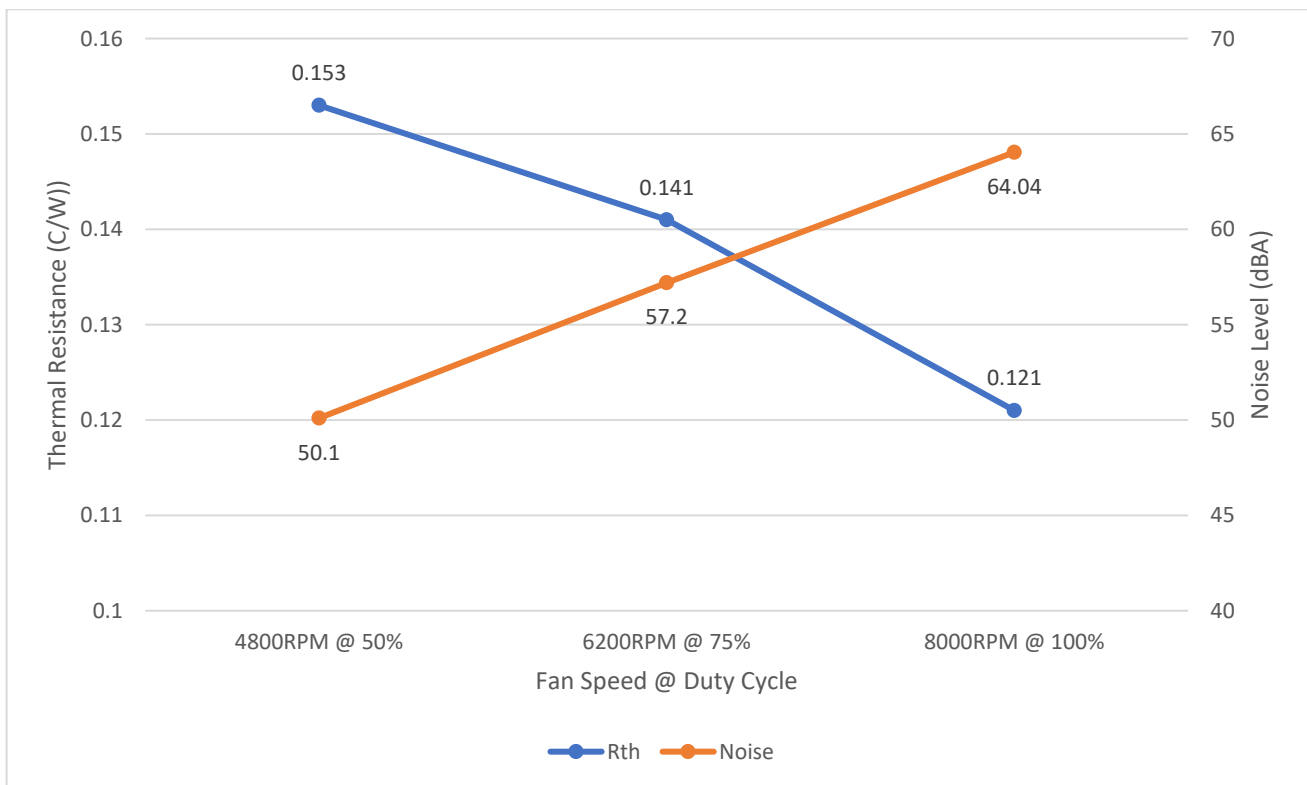
Cooling Fan Specification

Model Number	DF128038BX-PWVG
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(-)

A50| Socket sp3



Performance Chart: Active Cooler A50 Thermal Resistance Thermal Resistance vs. Fan Speed @ PWM Duty Cycle



Publication History:

02/23/2023: Initial Release

(Specifications are subject to change without notice)

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REV#	DESCRIPTION	CHECKER	DATE
0.0	INITIAL RELEASE	ENGR	02/23/23

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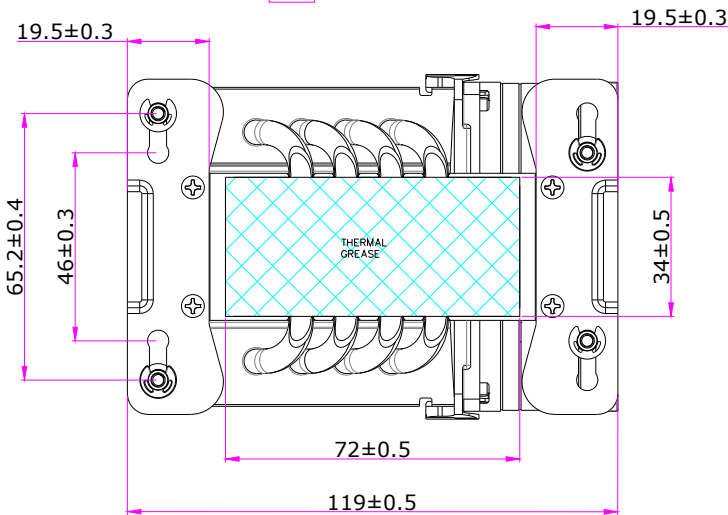
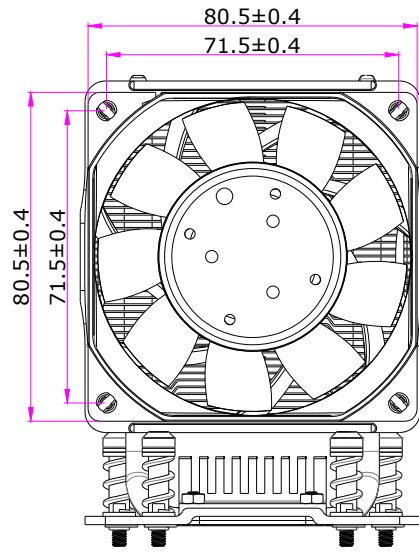
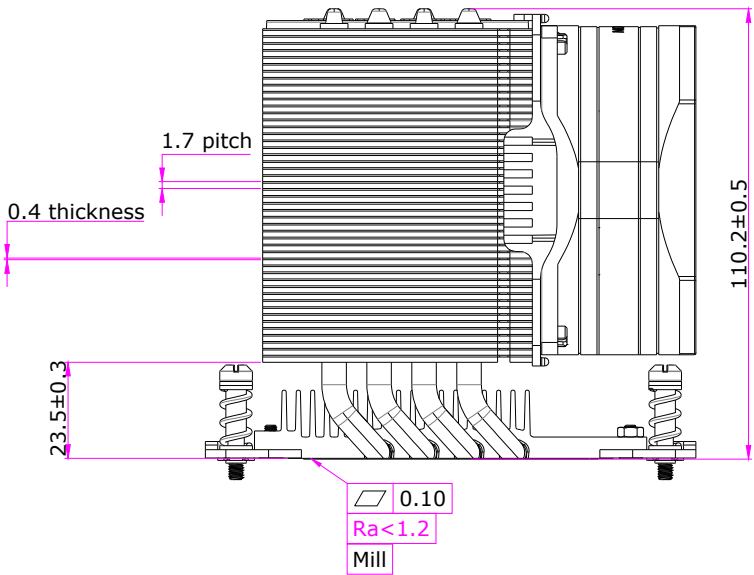
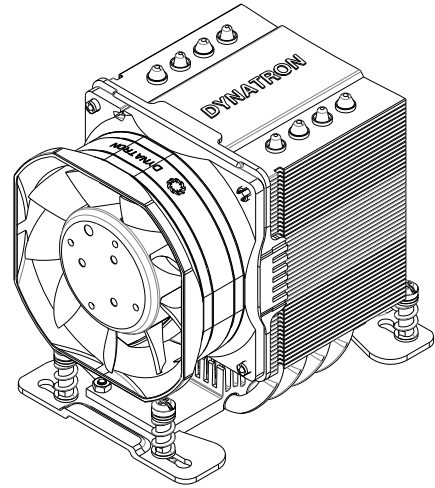
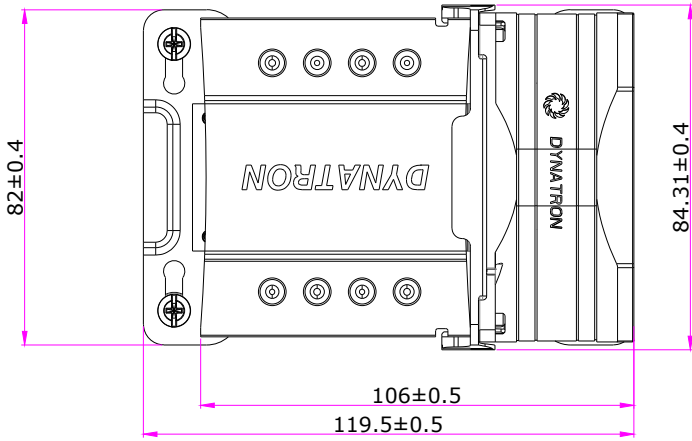
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	NAME	DATE
DRAWN BY	Jun	02/23/2023
CHECKED BY	Jun	02/23/2023
ENG. APPROVED		
MFG. APPROVED	-	-



DYNATRON CORPORATION

TITLE: **3U Air Cooler A50 Overall Dimension Drawing**

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VIEW	
UNITS	MM

DWG. No:	DYN-BD-A50
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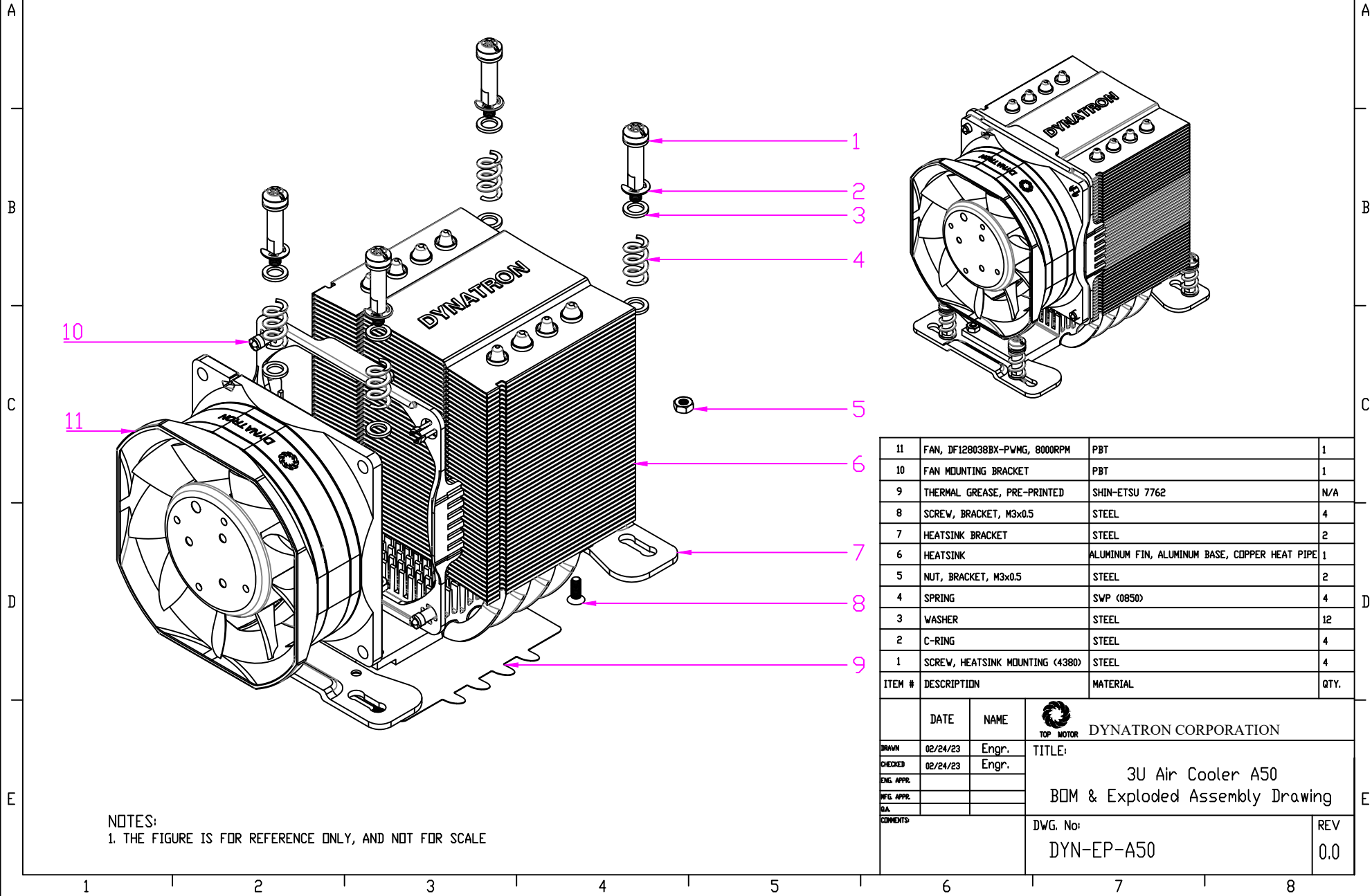
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0.0	INITIAL RELEASE	Engr.	02/24/23

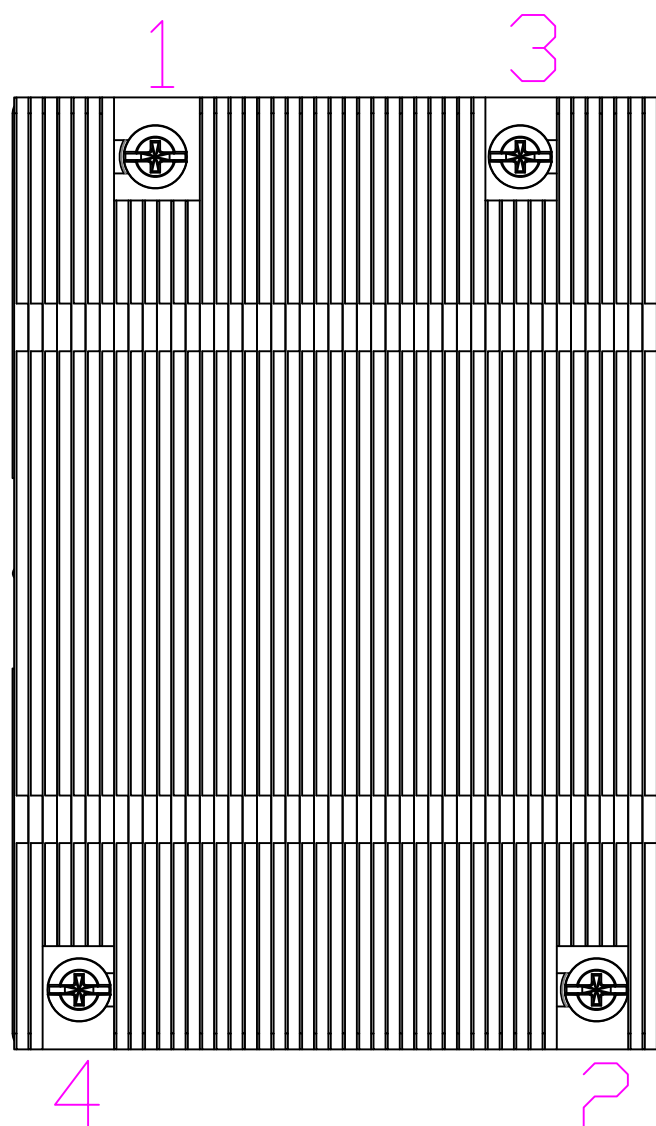


ITEM #	DESCRIPTION	MATERIAL	QTY.
11	FAN, DF128038BX-PWVG, 8000RPM	PBT	1
10	FAN MOUNTING BRACKET	PBT	1
9	THERMAL GREASE, PRE-PRINTED	SHIN-ETSU 7762	N/A
8	SCREW, BRACKET, M3x0.5	STEEL	4
7	HEATSINK BRACKET	STEEL	2
6	HEATSINK	ALUMINUM FIN, ALUMINUM BASE, COPPER HEAT PIPE	1
5	NUT, BRACKET, M3x0.5	STEEL	2
4	SPRING	SWP (0850)	4
3	WASHER	STEEL	12
2	C-RING	STEEL	4
1	SCREW, HEATSINK MOUNTING (4380)	STEEL	4

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

DATE		NAME		
02/24/23	Engr.	02/24/23	Engr.	
DRAWN				TITLE: 3U Air Cooler A50 BOM & Exploded Assembly Drawing
CHECKED				
ENG. APPR.				
MFG. APPR.				
D.A.				
COMMENTS				DWG. No: DYN-EP-A50
				REV 0.0

SOCKET SP3/TR4/sTRX4/sWRX8 COOLER INSTALLATION INSTRUCTION



HEATSINK ASSEMBLY
ORDER 1,2,3,4

HEATSINK DISASSEMBLY
ORDER 4,3,2,1

TORQUE = 6.1 KG -CM MAX

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