



L40

2U Liquid Cooler

PRODUCT SPECIFICATIONS

Spelification Version: 12/21/2023

(Specifications are subject to change without notice)

Model Number: L40

- Recommend for AMD® CPU as following
 - AMD® EPYC™ Processor, Socket SP6
 - AMD® Ryzen™ PRO Processor, Socket sTR5
- Liquid Cooler for 2U Server and Up

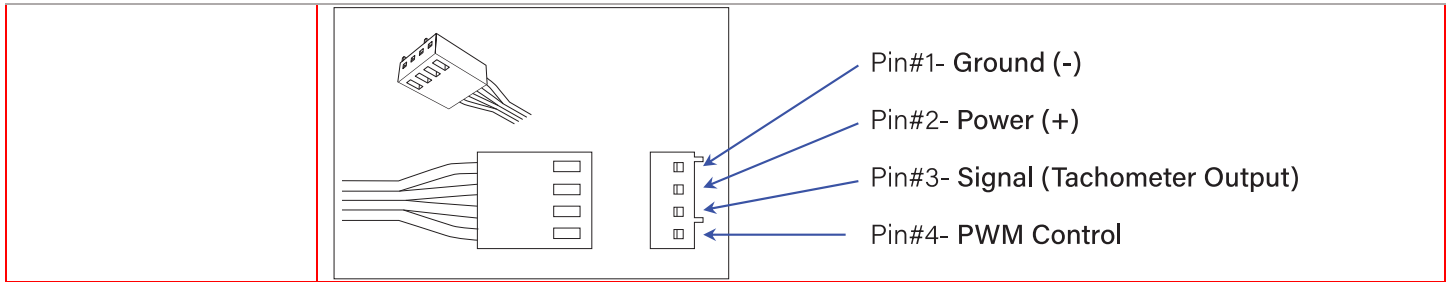
Overall Specification

Thermal Grease	Shin-Etsu 7762 Pre-Printed
TDP	Up to 350 Watts

Cooling Fan Specification

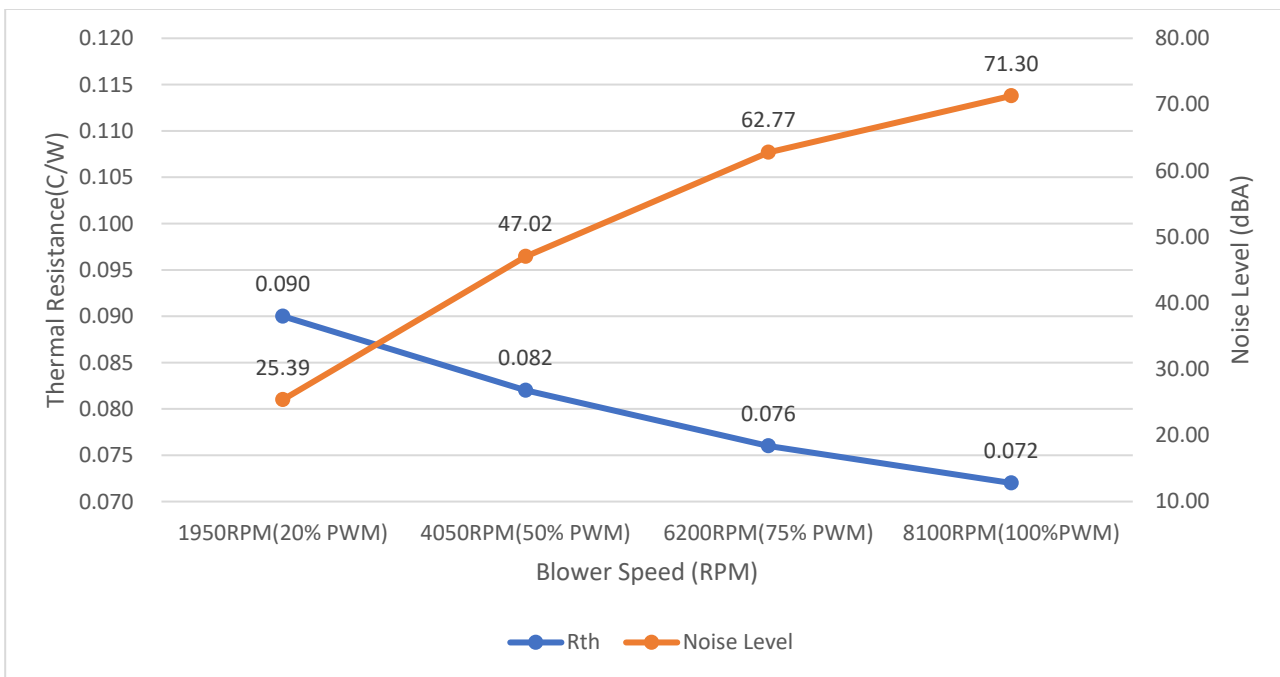
Model Number	DB128038BX-PWMG
Dimension	Double Ball
Bearing	Liquid State
Rated Voltage	12V
Rated Speed	At Duty Cycle 0~20%: 2400± 200 RPM At Duty Cycle 50%: 4800± 10% RPM At Duty Cycle 100%: 8000±10% RPM
Input Power	At Duty Cycle 0~20%: 1.20 W At Duty Cycle 50%: 5.52 W At Duty Cycle 100%: 24.72 W
Maximum Airflow	At Duty Cycle 0~20%: 35.52CFM 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%: 64.40 dBA
Lead Wire Pin Out	Pin#1- Black(-) Pin#2- Yellow(+) Pin#3- Green(Tachometer/ Signal Output) Pin#4- Blue (PWM)

L40 | Socket SP6/sTR5



Performance Chart: Passive Cooler L40 Thermal Resistance

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





DYNATRON CORPORATION

TOP MOTOR

TOP MOTOR TECHNOLOGY(HUIZHOU)CO,LTD

1. SCOPE

This specification defines the electrical and mechanical characteristics of the □ AC / ■ DC Brushless Pump (■ Liquid State/ □ 2-Balls Bearing), which is carefully designed and manufactured for your special needs by Dynatron Corporation.

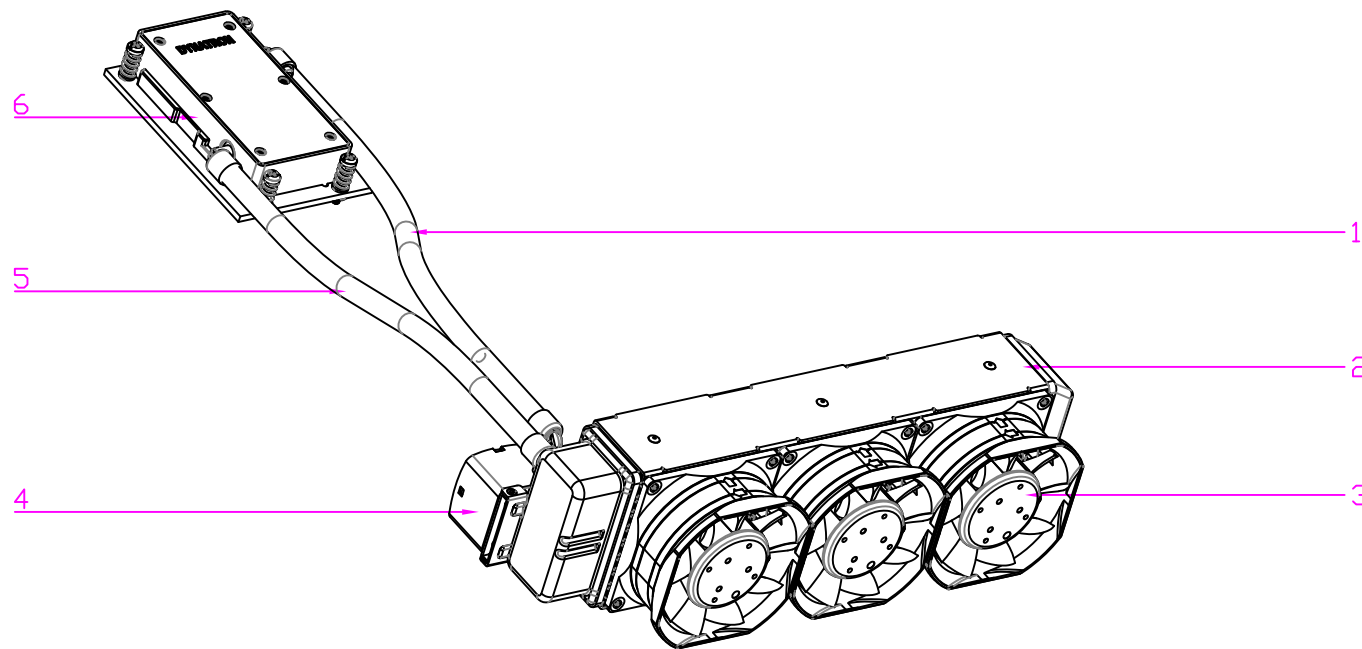
2. ELECTRICAL CHARACTERISTICS(Pump)

Items		Description
1.	Rated Voltage	DC 12V
2.	Start Voltage	DC 7V
3.	Operating Voltage	10.2 V ~ 13.8 V
4.	Flow – (maximum value)	3.19LPM (0.86GPM)
5.	Input Current	0.6A (Max.)
6.	Input Power	7.2W
7.	Speed	4800RPM ± 10 %
8.	Insulation Resistance – Between Frame and Terminal	10 M ohm at DC 500 V
9.	Dielectric Strength – Between Frame and Terminal	5 mA (Max.) @ AC 500 V 60 Hz 1 min.
10.	Life – Continuous operating under normal temperature (25 °C or 77 °F)	35,000 hours
11.	Rotation	Anticlockwise Air Discharged
12.	Autorestart Time	3-5sec
13.	Lead Wires	UL 2468, AWG 26 or Equivalent “-”: Black; “+”: Black; “S” Black;
14.	Acoustical Noise	26.5dBA(Max27 dBA)

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	Engr.	12/21/23

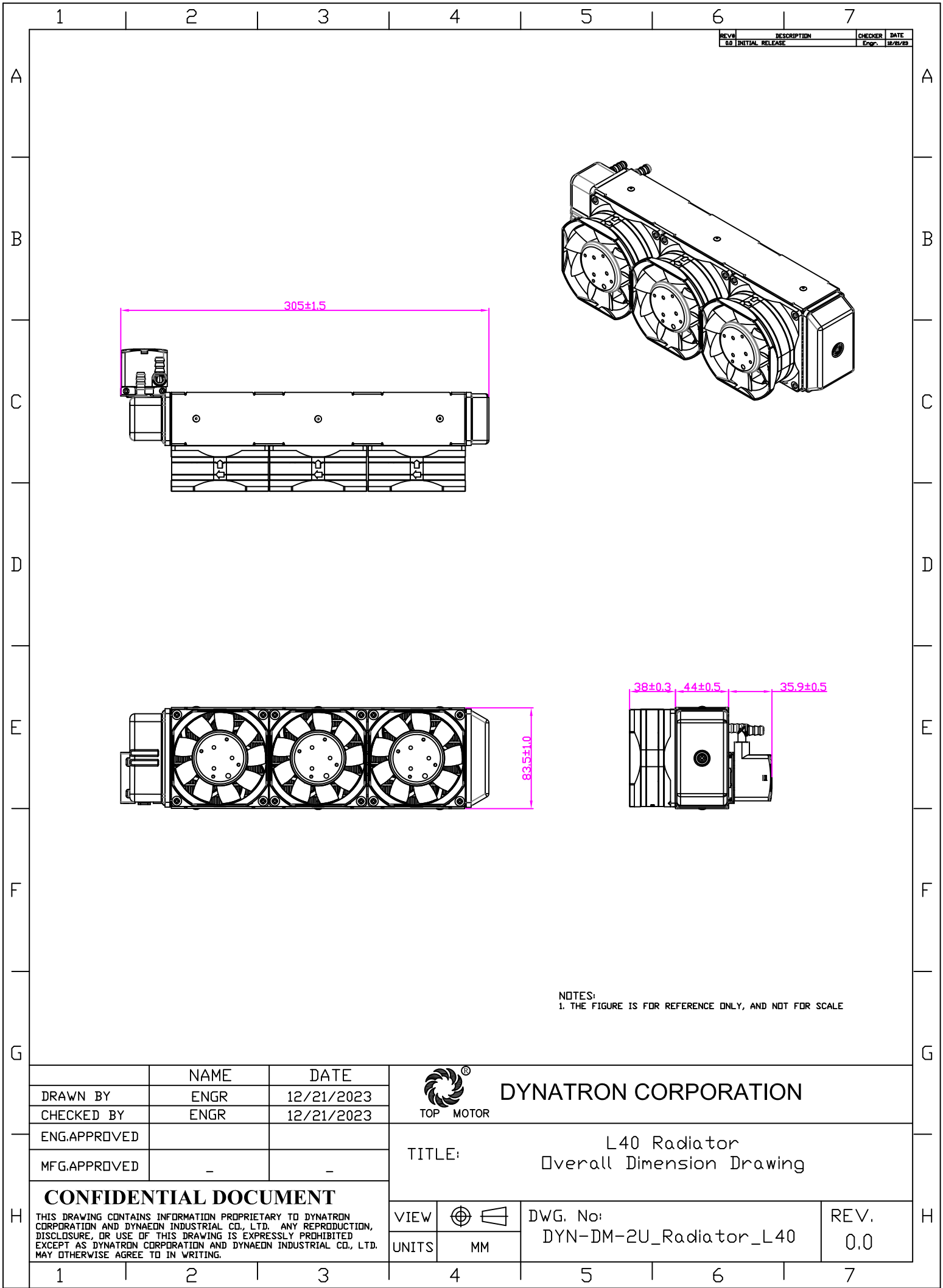


6	COLD PLATE	(SEE DRAWING)	1
5	HOSE, COLD-SIDE, 350MM LENGTH	EPDM	1
4	PUMP60	PLASTIC	1
3	FAN, 8038, 4-Pin, 8000RPM	PLASTIC	4
2	RADIATOR	ALUMINUM (SEE DRAWING)	1
1	HOSE, WARM-SIDE, 300MM LENGTH	EPDM	1
ITEM #	DESCRIPTION	MATERIAL	QTY.

	DATE	NAME	 TOP MOTOR DYNATRON CORPORATION
DRAWN	12/21/23	Engr.	
CHECKED	12/21/23	Engr.	
ENG. APPR.			
MFG. APPR.			
QA			TITLE: 2U Liquid Cooler L40 BOM & Exploded Assembly Drawing
COMMENTS:			
DWG. No: DYN-EP-L40			
			REV 0.0

NOTES:

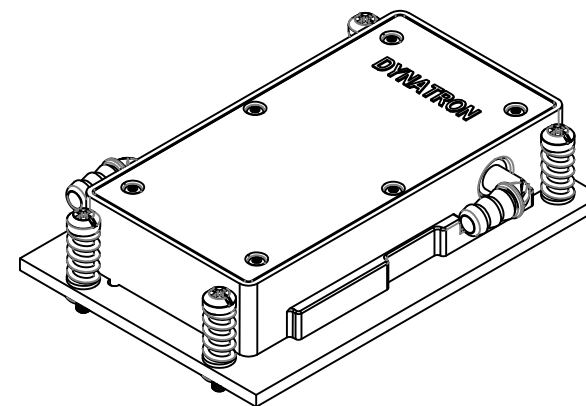
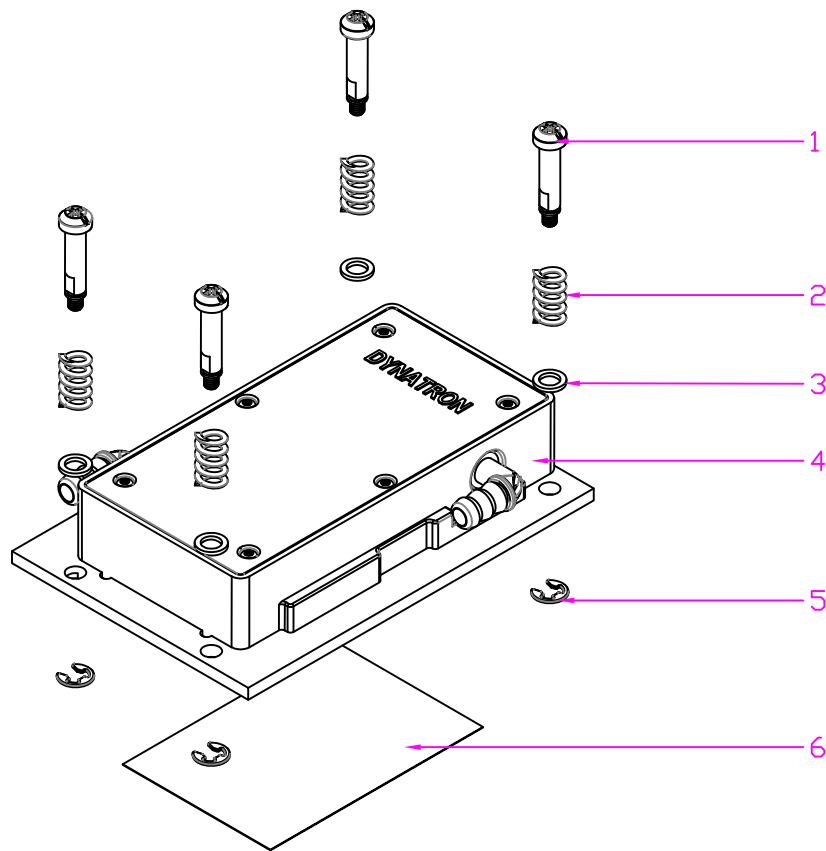
1. THE FIGURE IS FOR REFERENCE ONLY, AND NOT FOR SCALE



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	Engr.	06/30/23



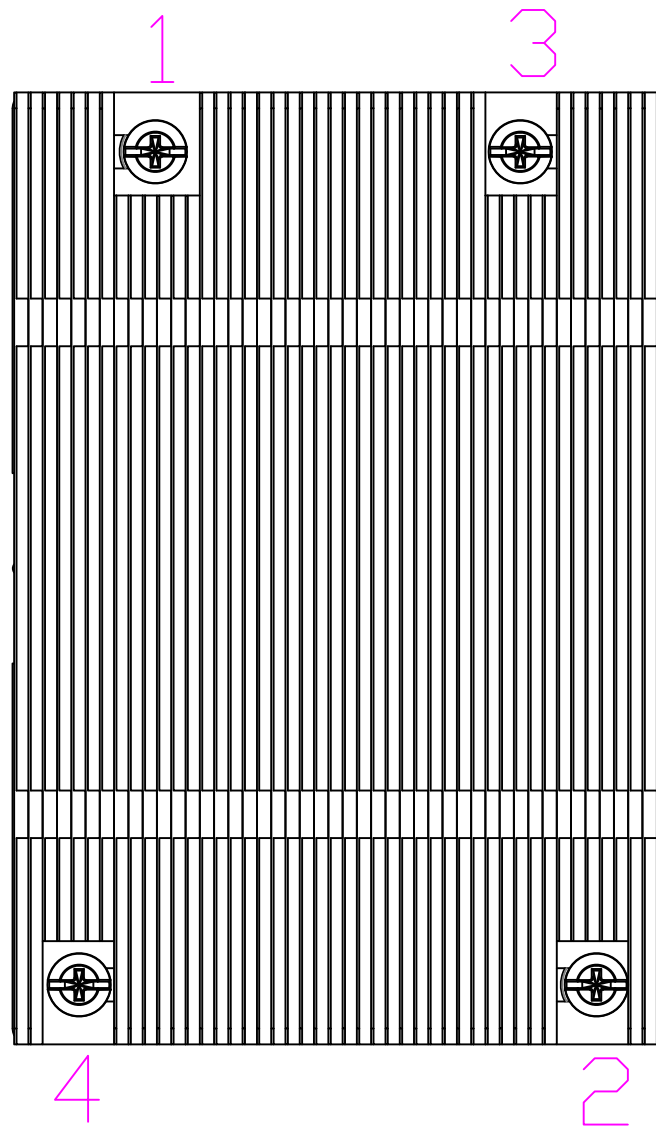
6	THERMAL GREASE	SHIN-ETSU X-23-7762 (72x50x0.2, NO MESH)	N/A
5	C-CLIP	STEEL	4
4	COLD PLATE	COPPER BASE, PPS ENCLOSURE	1
3	HEATSINK WASHER (52000030)	STEEL	4
2	HEATSINK SPRING (50600890)	SWP	4
1	HEATSINK SCREW (50904380)	STEEL	4
ITEM #	DESCRIPTION	MATERIAL	QTY.

	DATE	NAME	 DYNATRON CORPORATION TITLE: 1U Socket SP6 Cold Plate BDM & Exploded Assembly Drawing DWG. No: DYN-EP-SP6-CP-1U REV 0.0
DRAWN	06/30/23	Engr.	
CHECKED	06/30/23	Engr.	
ENG. APPR.			
MFG. APPR.			
QA			
COMMENTS			

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:

12/21/2023: Initial Release

(Specifications are subject to change without notice)