

L29

1U Liquid Cooler

PRODUCT SPECIFICATIONS

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Model Number: L29

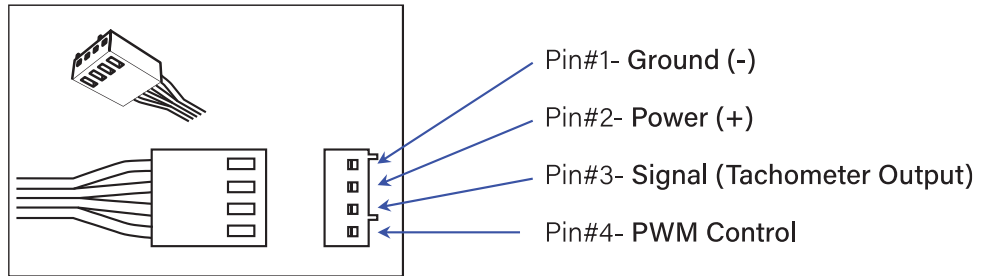
- Server Liquid Cooling Solution Recommended for AMD® Ryzen Threadripper Processor, Socket sWRX8, sTRX4, TR4, and AMD® Epyc Processor Socket SP3
- For 1U Server and up

Overall Specification

- Cold Plate Module with Copper base
- Space-saving lightweight Radiator
- 4cm Cooling Fans with 4-Pin PWM Function
- Stand-alone Water Pump with Powerful Flow Rate 1.7 Litter Per Minute
- EPDM Hoses Assembled
- Mounting Accessories are included
- Shin-Etsu 7762 or Equivalent Thermal Compound Pre-Printed on Base
- Support CPU Overclocking Power Mode up to 280 Watts Heat Dissipation at 35°C or lower ambient temperature

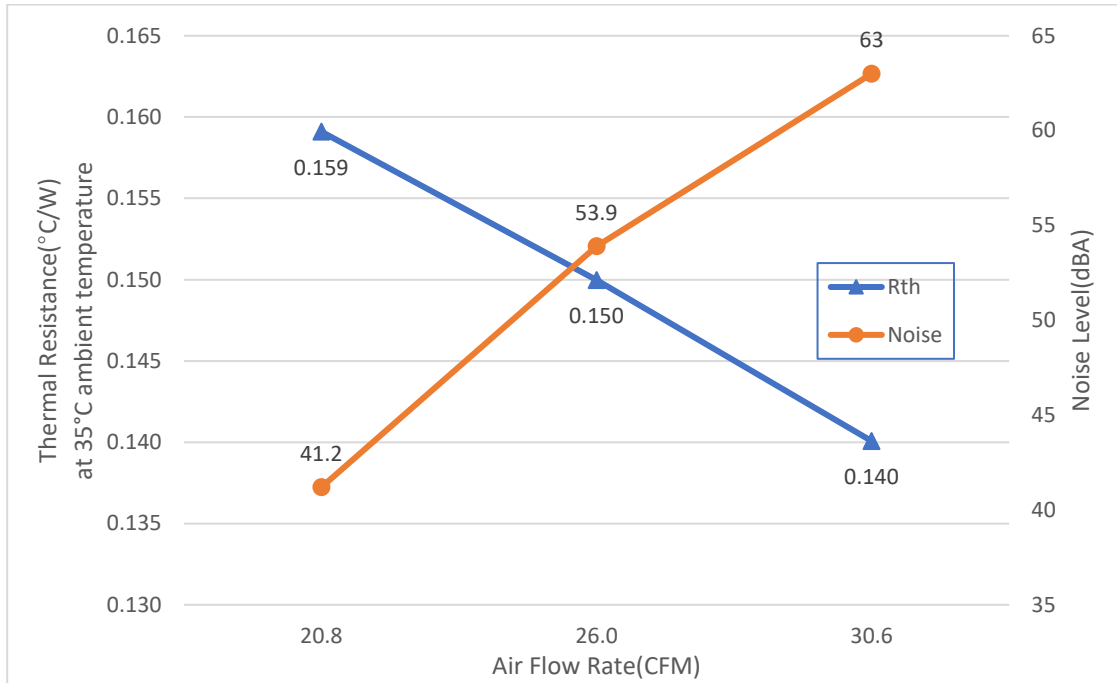
Fan Specification

Model Number	DF124028BU - PWM
Dimension	40 x 40 x 28 mm
Bearing	Double Ball
Rated Voltage	12V
Rated Speed	At Duty Cycle 0~20%: 2000 ± 10% RPM At Duty Cycle 50%: 10000 ± 10% RPM At Duty Cycle 100%: 18000 ±10% RPM
Input Power	At Duty Cycle 0~20%: 2.40 W At Duty Cycle 50%: 7.20 W At Duty Cycle 100%: 15.60 W
Maximum Airflow	At Duty Cycle 0~20%: 2.944 CFM At Duty Cycle 50%: 14.72 CFM At Duty Cycle 100%: 30.6 CFM
Rated Static Pressure	At Duty Cycle 0~20%: 0.61 mm-H2O At Duty Cycle 50%: 15.12 mm-H2O At Duty Cycle 100%: 49.0 mm-H2O
Acoustical Noise	At Duty Cycle 0~20%: 16.00 dBA At Duty Cycle 50%: 44.24 dBA At Duty Cycle 100%: 57.00 dBA

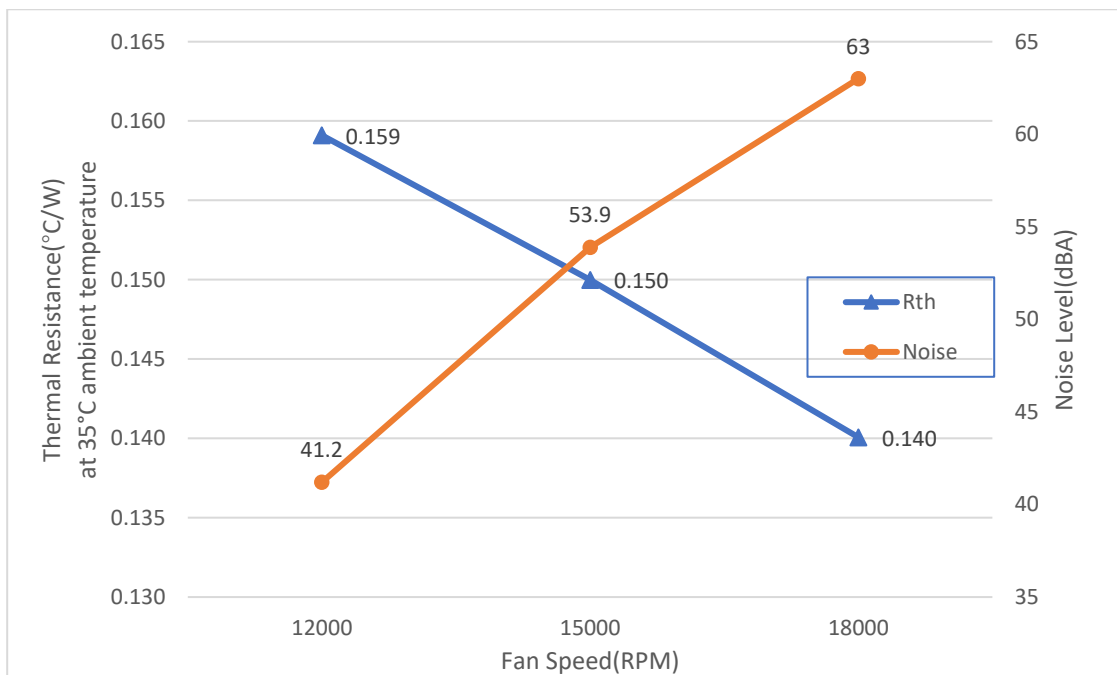
L29 | SP3/TR4/sTRX4**Lead Wire Pin Out
Diagram**

L29 Thermal Performance Curve

Cooling Performance vs. Airflow



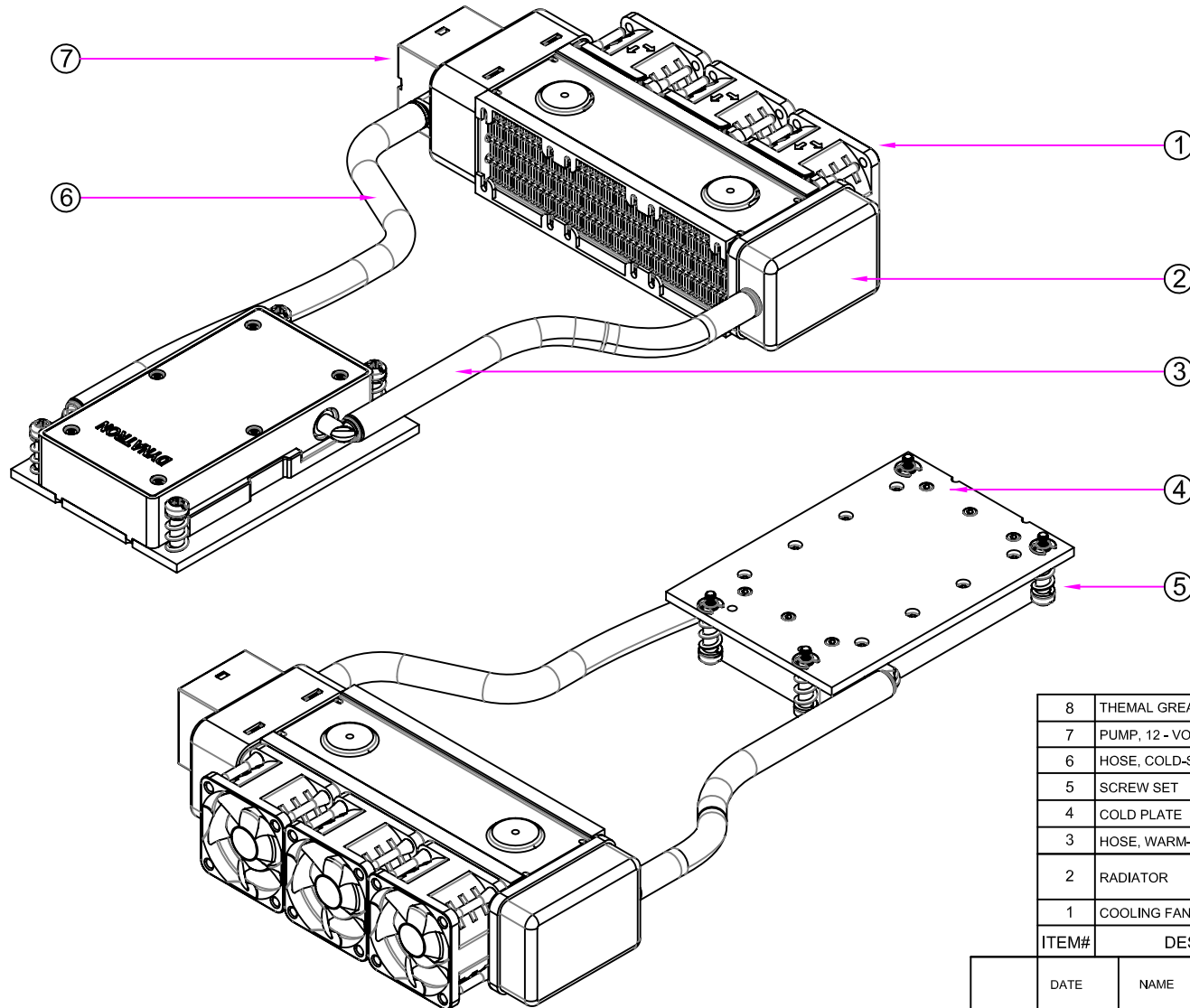
Cooling Performance vs. Fan Speed



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ASSEMBLY PARTS



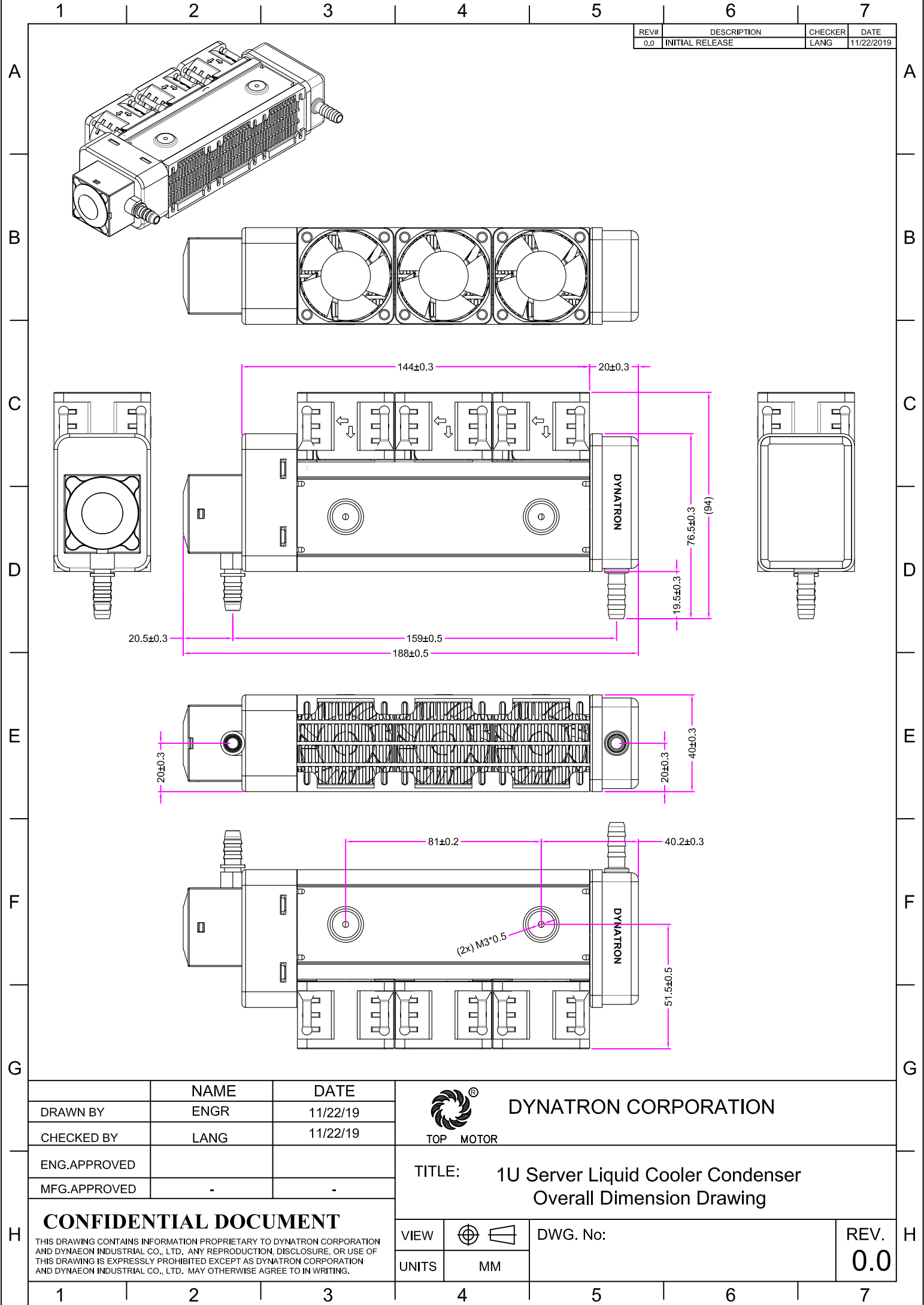
REV#	DESCRIPTION	CHECKER	DATE
0.0	INITIAL RELEASE	LANG	11/21/2019
1.0	HOSE LENGTH CHANGE	LANG	12/13/2019
2.0	SPRING CHANGE	JOY	10/14/20
	WASHER CHANGE		

8	THEMAL GREASE, PRE-PRINTED	SHIN-ETSU 7762	1
7	PUMP, 12 - VOLT	PLASTIC	1
6	HOSE, COLD-SIDE, 350 mm L	EPDM	1
5	SCREW SET	STEEL / SUS304	4
4	COLD PLATE	SEE PAGE 8	1
3	HOSE, WARM-SIDE, 300 mm L	EPDM	1
2	RADIATOR	ALUMINUM ALLOY SEE PAGE 7	1
1	COOLING FAN, DF124028BU -PWM, 18000RPM	PLASTIC	3
ITEM#	DESCRIPTION	MATERIAL	QTY.

NOTES:

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

	DATE	NAME	 DYNATRON CORPORATION
DRAWN	12/13/2019	Engr	TITLE: Liquid Cooler Model L 29 BOM & Assembly Drawing
CHECKED	10/14/2020	JOY	
ENG. APPR.			
MFG. APPR.			
Q.A.			
COMMENTS:			DWG. No: DYN-EP-L 29
			REV 1.0



REV#	DESCRIPTION	CHECKER	DATE
0.0	INITIAL RELEASE	LANG	11/22/2019

	NAME	DATE
DRAWN BY	ENGR	11/22/19
CHECKED BY	LANG	11/22/19
ENG.APPROVED		
MFG.APPROVED	-	-

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TOP MOTOR

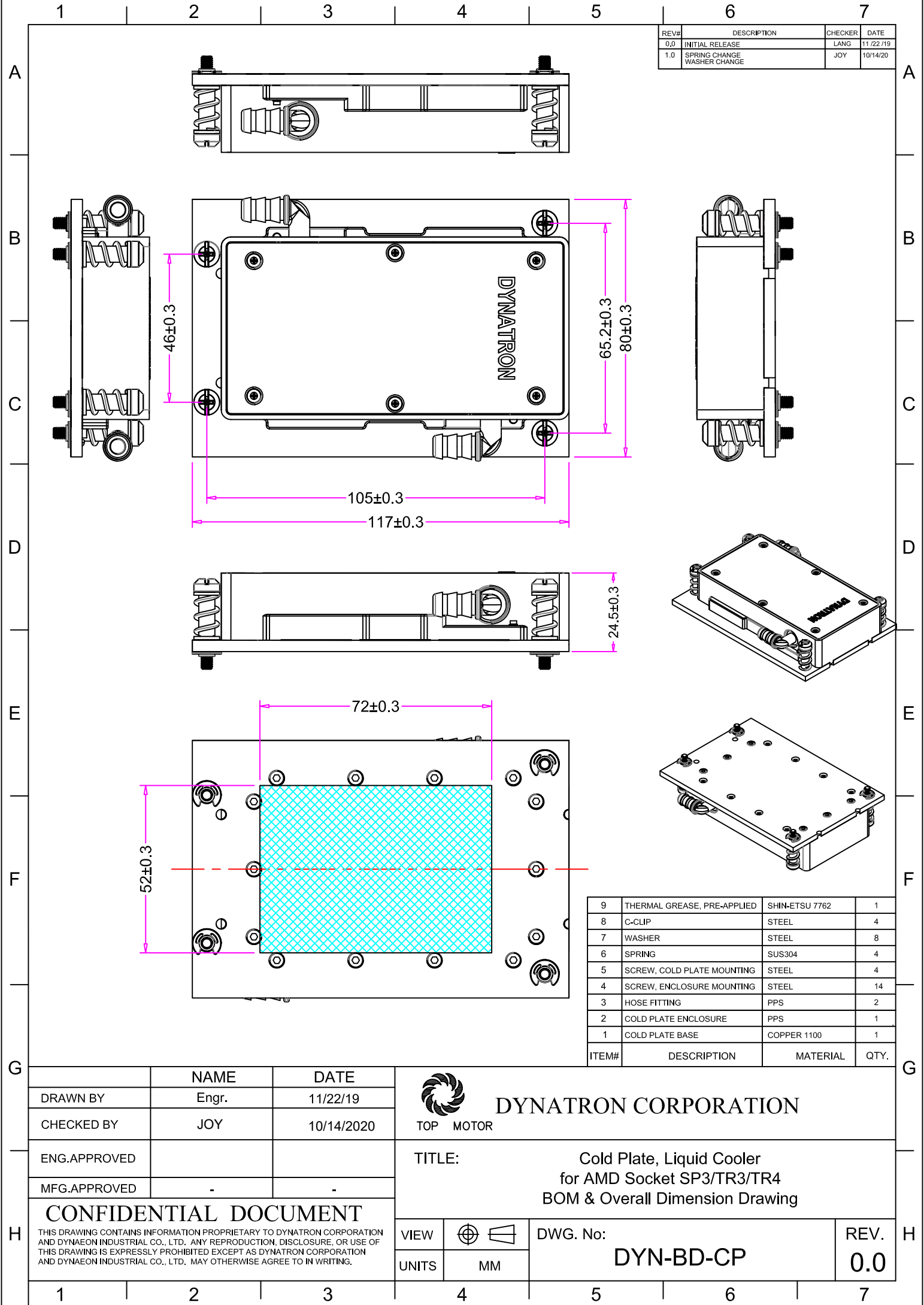
DYNATRON CORPORATION

TITLE: 1U Server Liquid Cooler Condenser
Overall Dimension Drawing

VIEW	
UNITS	MM

DWG. No:

REV.
0.0



REV#	DESCRIPTION	CHECKER	DATE
0.0	INITIAL RELEASE	LANG	11/22/19
1.0	SPRING CHANGE WASHER CHANGE	JOY	10/14/20

9	THERMAL GREASE, PRE-APPLIED	SHIN-ETSU 7762	1
8	C-CLIP	STEEL	4
7	WASHER	STEEL	8
6	SPRING	SUS304	4
5	SCREW, COLD PLATE MOUNTING	STEEL	4
4	SCREW, ENCLOSURE MOUNTING	STEEL	14
3	HOSE FITTING	PPS	2
2	COLD PLATE ENCLOSURE	PPS	1
1	COLD PLATE BASE	COPPER 1100	1

ITEM#	DESCRIPTION	MATERIAL	QTY.
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	NAME	DATE
DRAWN BY	Engr.	11/22/19
CHECKED BY	JOY	10/14/2020
ENG.APPROVED		
MFG.APPROVED	-	-



TOP MOTOR

DYNATRON CORPORATION

TITLE: Cold Plate, Liquid Cooler
for AMD Socket SP3/TR3/TR4
BOM & Overall Dimension Drawing

VIEW	
UNITS	MM

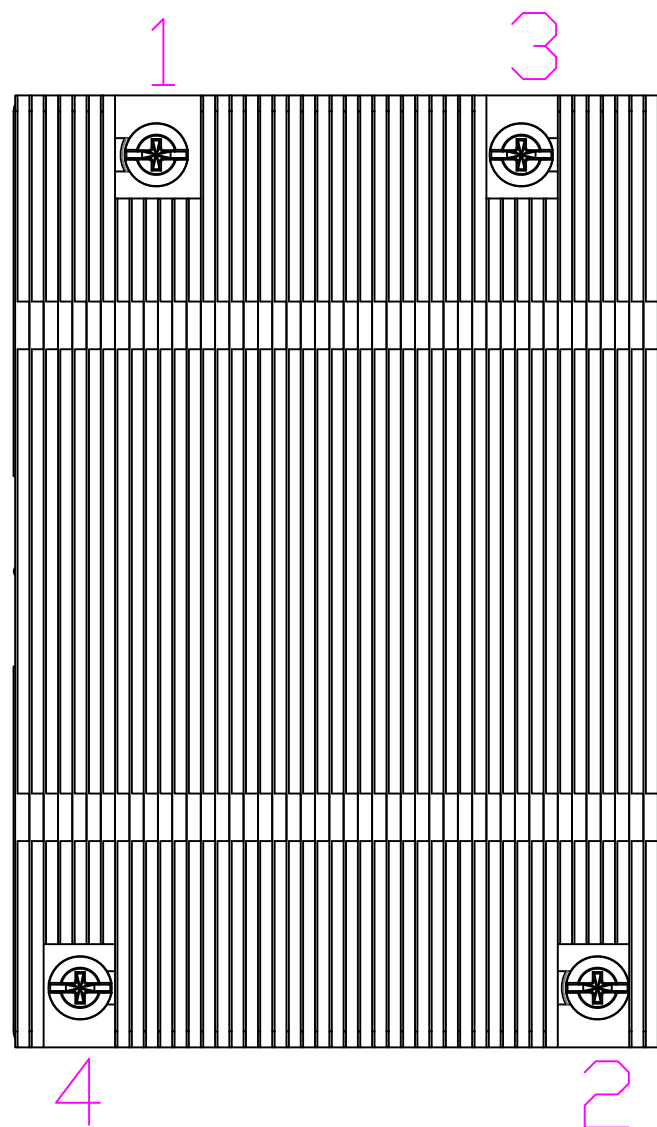
DWG. No:	DYN-BD-CP
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REV.	0.0
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SOCKET SP3/TR4/sTRX4/sWRX8 COOLER INSTALLATION INSTRUCTION



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