DYNATRON

Q5

2U Active Air Cooler

PRODUCT SPECIFICATIONS

Model Number: Q5

- Recommend for Intel® CPU as following
  - Support Intel Core 12th -15th Gen, Socket LGA1700/1851
- Active Cooler for 2U Server & Up

Overall Specification

Dimension	90.7 x 85.0 x 65.1 mm
Weight	515±5g
Material	Copper Base & Aluminum Fins with Heat Pipe embedded
Fan	6025 Side-blow fan with PWM Function
Mounting Method	Cooler Mounted in Captive design
Back Strip Set	Included
Thermal Grease	SHIN-ETSU 7762 or Equivalent
TDP	Up to 185 Watts at 30°C ambient temperature

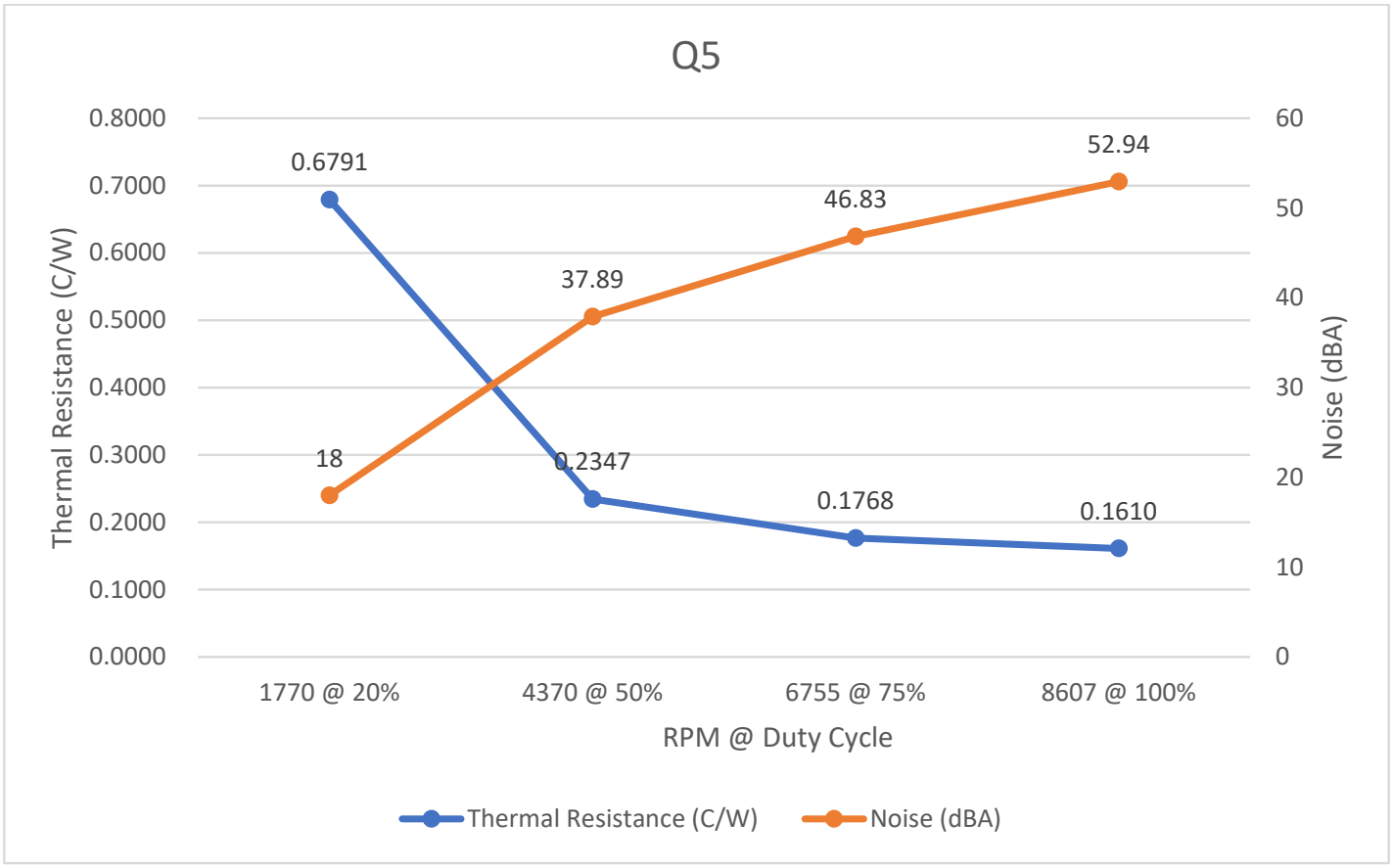
Cooling Fan Specification

Dimension	60 x 60 x 25 mm
Bearing	Double Ball
Rated Voltage	12V
Rated Speed	At Duty Cycle 0~20%: 1600± 200 RPM At Duty Cycle 50%: 4000± 10% RPM At Duty Cycle 100%: 8000 RPM
Input Power	At Duty Cycle 0~20%: 0.42 W At Duty Cycle 50%: 1.44 W At Duty Cycle 100%: 8.4 W
Maximum Airflow	At Duty Cycle 0~20%: 9.28 CFM At Duty Cycle 50%: 23.21 CFM At Duty Cycle 100%: 46.41 CFM
Rated Static Pressure	At Duty Cycle 0~20%: 0.76 mm-H2O At Duty Cycle 50%: 4.76 mm-H2O At Duty Cycle 100%: 19.04 mm-H2O
Acoustical Noise	At Duty Cycle 0~20%: 18 dBA At Duty Cycle 50%: 37.89 dBA At Duty Cycle 100%: 52.94 dBA
Lead Wire Pin Out	Pin#1- Black(-) Pin#2- Yellow(+) Pin#3- Green(Tachometer/ Signal Output) Pin#4- Blue (PWM)

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Performance Chart: Active Cooler Q5 Thermal Resistance

Thermal Resistance vs. Fan Speed (Duty Cycle and RPM)

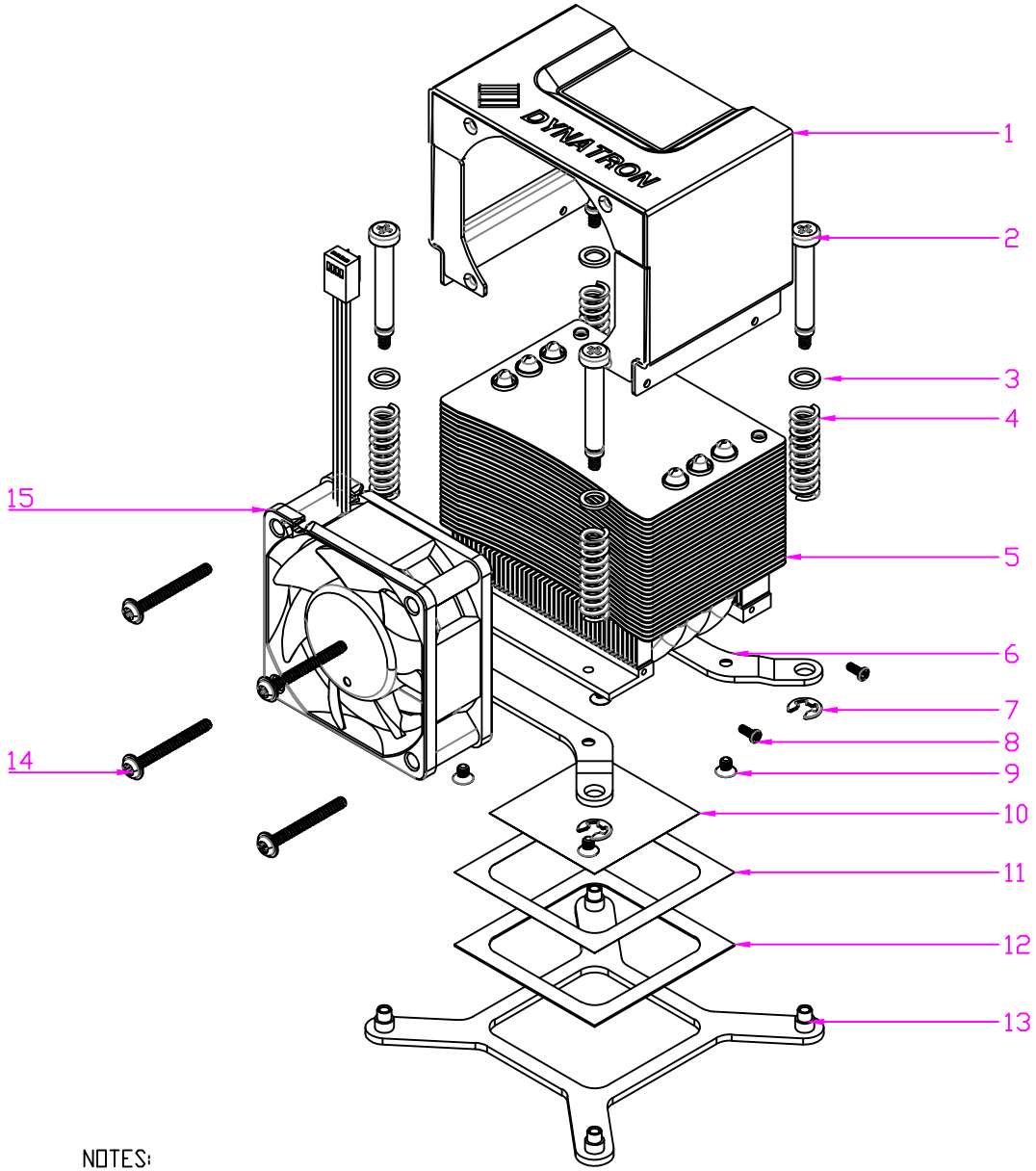


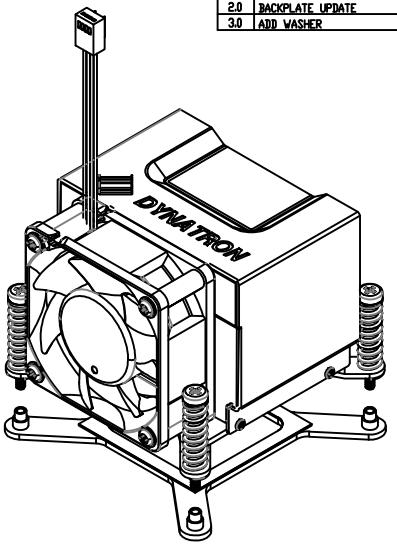
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REV#	DESCRIPTION	CHECKER	DATE
0.0	INITIAL RELEASE	JOY	02/24/21
1.0	FAN UPDATE	JOY	06/29/21
2.0	BACKPLATE UPDATE	JOY	10/07/21
3.0	ADD WASHER	JOY	11/08/21





ITEM #	DESCRIPTION	MATERIAL	QTY.
15	FAN, DF126025BH-8000RPM	PLASTIC	1
14	FAN MOUNTING SCREW	STEEL	4
13	BACKPLATE	SPCC	1
12	INSULATOR	FORMEX GK-17	1
11	ADHESIVE TAPE	3M	1
10	THERMAL GREASE	SHIN-ETSU 7762	1
9	BRACKET SCREW	STEEL	4
8	COVER MOUNTING SCREW	STEEL	4
7	C-RING	STEEL	4
6	BRACKET	SK-7	2
5	HEATSINK	COPPER BASE+AL FIN + HEATPIPE x3	4
4	SPRING	SUS 304	1
3	WASHER	STEEL	4
2	SCREW, HEATSINK	STEEL	4
1	FAN COVER	ALUMINUM	1

	DATE	NAME
DRAWN	02/24/21	engr.
CHECKED	06/29/21	engr.
ENG. APPR.		
MFG. APPR.		
Q.A.		
COMMENTS:		

TOP MOTOR DYNATRON CORPORATION

TITLE:

2U Active Cooler Q5

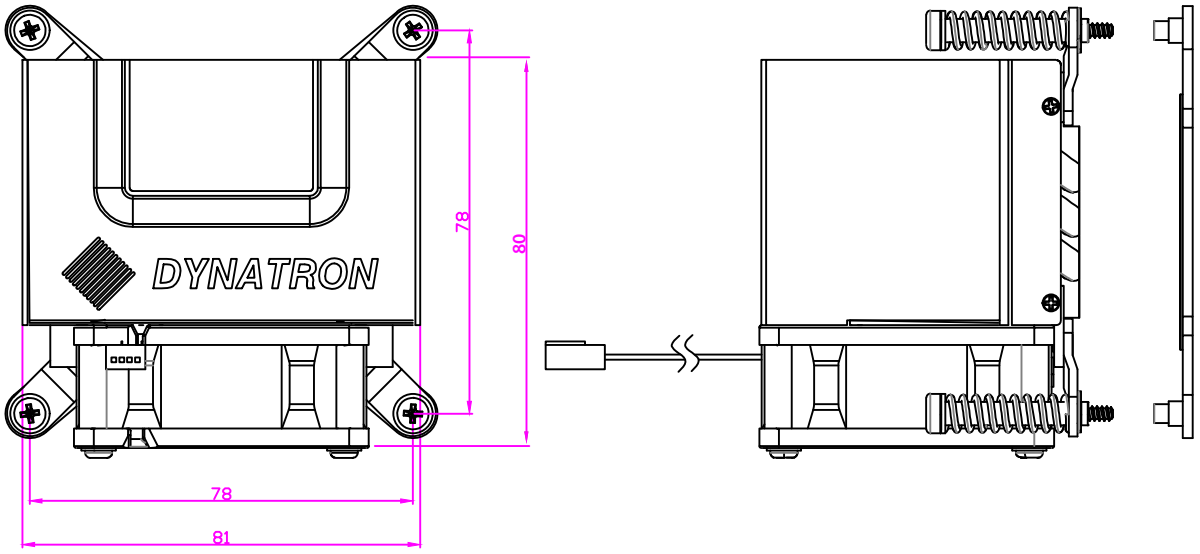
BOM & Exploded Assembly Drawing

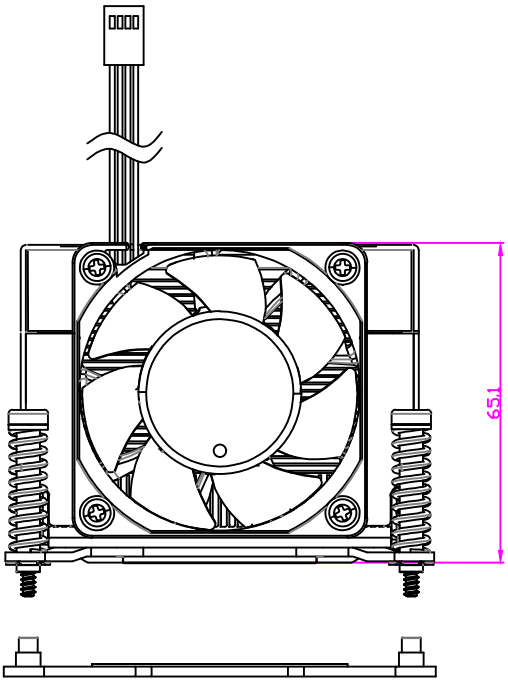
DWG. No: DYN-EP-Q5

REV 3.0

NOTES:
1. OVERALL DIMENSION: 90.7x85.0x65.1 mm
2. THE FIGURE IS FOR REFERENCE ONLY, AND NOT FOR SCALE

REVN	DESCRIPTION	CHECKER	DATE
0.0	INITIAL RELEASE	JOY	02/24/21
1.0	BACKPLATE UPDATE	JOY	10/07/21
2.0	ADD WASHER	JOY	11/05/21





	NAME	DATE
DRAWN BY	ENGR	02/24/2021
CHECKED BY	ENGR	02/24/2021
ENG.APPROVED		
MFG.APPROVED	-	-

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TOP MOTOR

DYNATRON CORPORATION

TITLE: 2U ACTIVE COOLER
Q5
Overall Dimension Drawing

VIEW		DWG. No:	REV.
UNITS	MM	DYN-BD-Q5	2.0