

B14

3U Active Air Cooler

PRODUCT SPECIFICATIONS

Table of Contents

1. PRODUCT DESCRIPTION 2

2. THERMAL PERFORMANCE CURVE 4

3. DM DRAWING 5

4. EP DRAWING 6

5. RoHS CERTIFICATE 7

B14 | Socket LGA 3647/Square

Model Number: B14

- Intel® Xeon® Platinum / Gold / Silver/ Bronze Family Processor, Socket FCLGA3647; products formerly Cascade Lake, Skylake
- For Square ILM Only
- Active Cooler for 3U Server & Up

Overall Specification

Dimension	90 x 90 x 110 mm
Weight	600g
Material	Aluminum Heatsink with Heatpipe Embedded
Fan	8025 Axial PWM Fan for Heat Exhausting
Mounting Method	Convenient Heat Sink Screw captive mounting
Package Carriers	Both Fabric and Non-Fabric Package Carriers are Included
Thermal Grease	Shin-Etsu 7762 Pre-printed
TDP	Support CPU power up to 205 Watts heat dissipation

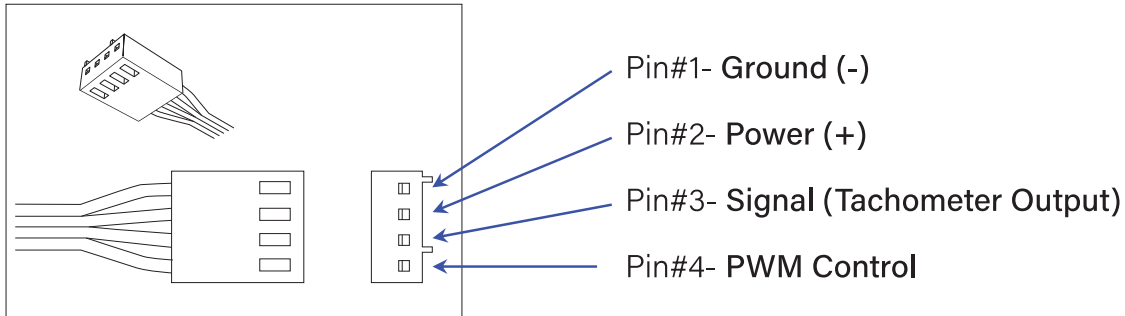
Fan Specification

Model Number	DF128025BM-PWM
Dimension	80 x 80 x 25 mm
Bearing	Double Ball
Rated Voltage	12V
Rated Speed	At Duty Cycle 0~20%: 1000 ± 200 RPM At Duty Cycle 50%: 2300 ± 10% RPM At Duty Cycle 100%: 4000 ± 10% RPM
Input Power	At Duty Cycle 0~20%: 0.96 W At Duty Cycle 50%: 1.44 W At Duty Cycle 100%: 4.8 W
Maximum Airflow	At Duty Cycle 0~20%: 12.5 CFM At Duty Cycle 50%: 28.8 CFM At Duty Cycle 100%: 50.0 CFM
Rated Static Pressure	At Duty Cycle 0~20%: 0.5 mm-H ₂ O At Duty Cycle 50%: 2.6 mm-H ₂ O At Duty Cycle 100%: 7.8 mm-H ₂ O
Acoustical Noise	At Duty Cycle 0~20%: 16 dBA At Duty Cycle 50%: 30.2 dBA At Duty Cycle 100%: 42.2 dBA
Lead Wire Pin Out	Pin#1- Black(-) Pin#2- Yellow(+) Pin#3- Green(Tachometer/ Signal Output)

B14 | Socket LGA 3647/Square

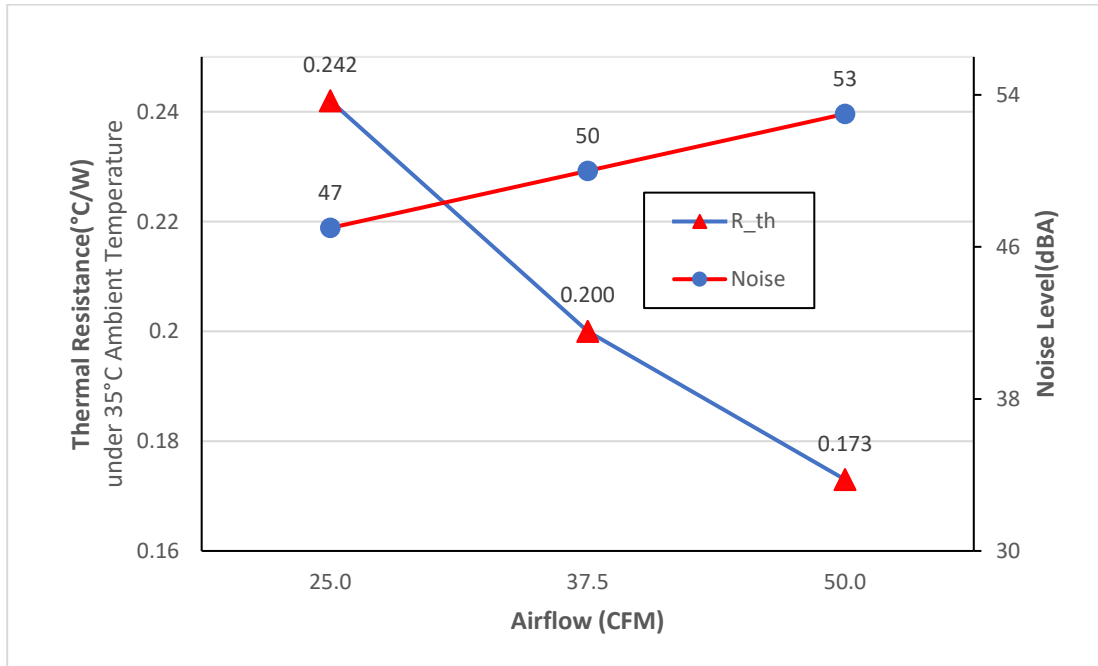
Pin#4- Blue (PWM)01

Lead Wire Pin Out Diagram

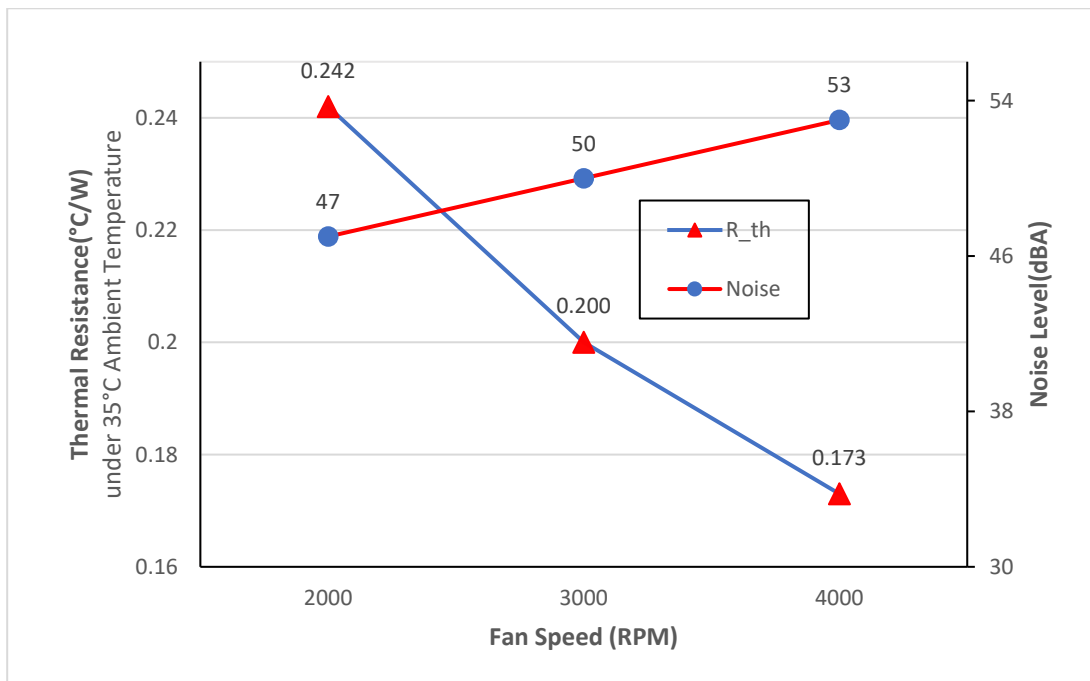


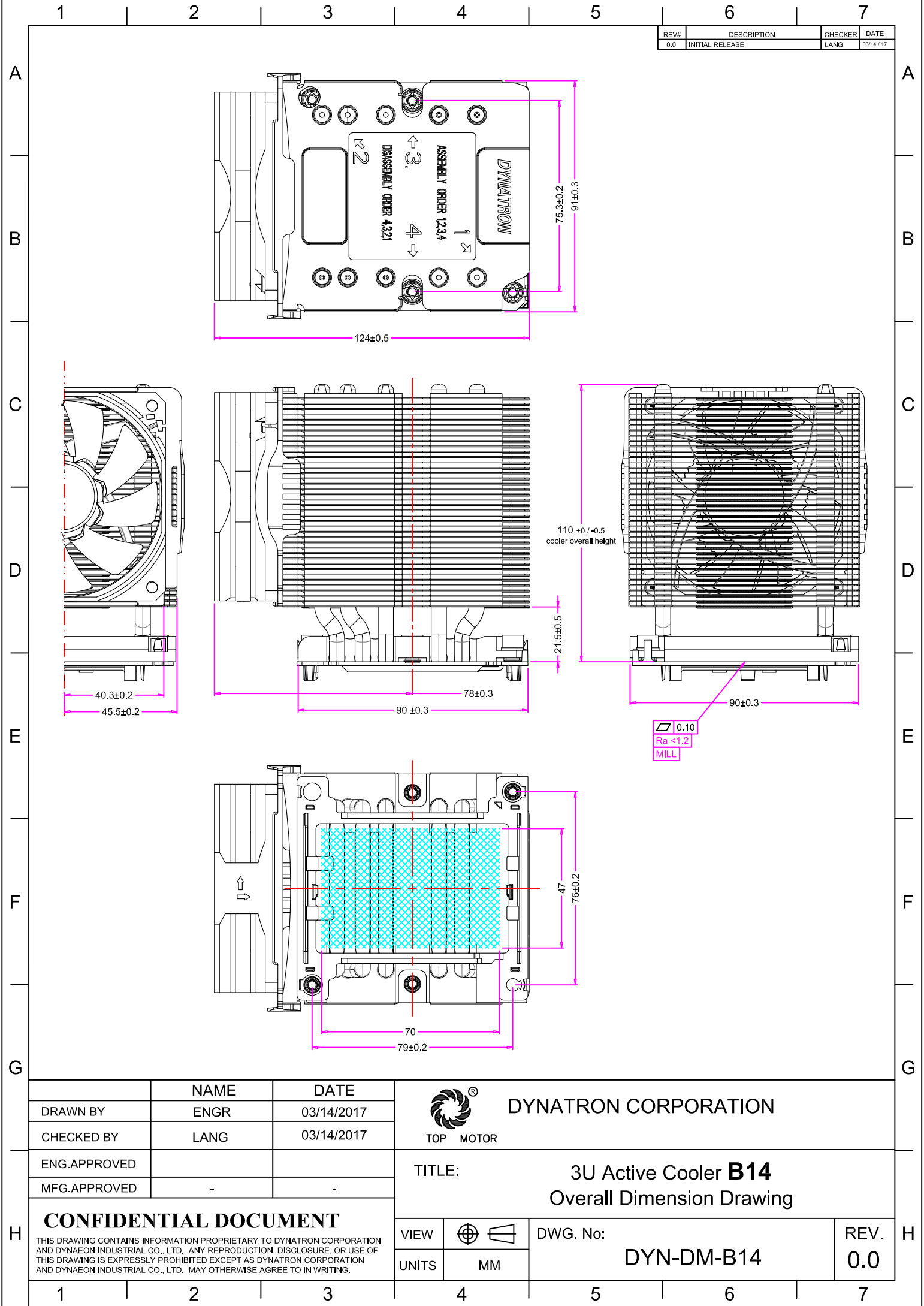
B14 | Socket LGA 3647/Square

Performance Chart: Active Cooler B14 Thermal Resistance Cooling Performance vs. Airflow



Cooling Performance vs. Fan Speed





REV#	DESCRIPTION	CHECKER	DATE
0.0	INITIAL RELEASE	LANG	03/14/17

	NAME	DATE
DRAWN BY	ENGR	03/14/2017
CHECKED BY	LANG	03/14/2017
ENG.APPROVED		
MFG.APPROVED	-	-



DYNATRON CORPORATION

TOP MOTOR

TITLE: 3U Active Cooler **B14**
Overall Dimension Drawing

VIEW	
UNITS	MM

DWG. No: DYN-DM-B14

REV. 0.0

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.

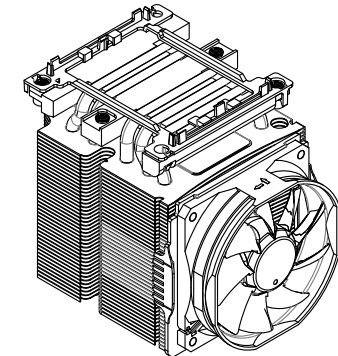
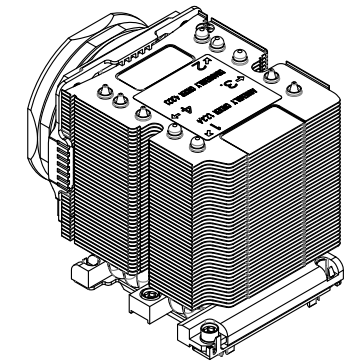
CONFIDENTIAL DOCUMENT

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.

ASSEMBLY PARTS

WHOLE SET OF HEATSINK

REV#	DESCRIPTION	CHECKER	DATE
0.0	INITIAL RELEASE	LANG	03/14/2017



10	THERMAL GREASE, PRE-PRINTED	SHIN-ETSU 7762	1
9	INTEL MOUNTING LABEL	PLASTIC	1
8	CALLAR	NY66 A205F	4
7	INTEL PACKAGE CARRIER	PLASTIC	1
6	Fan, DF128025BH-PWM, 4000 RPM	PLASTIC	1
5	FAN BRACKET	PLASTIC	1
4	SCREW, FAN MOUNTING	STEEL	4
3	HEATSINK	HEATPIES ALUMINUM BASE ALUMINUM STACKED FIN	1
2	WASHER	PLASTIC	4
1	HEATSINK NUT, M4	SS316 ANNEALED	4
ITEM#	DESCRIPTION	MATERIAL	QTY.
	DATE	NAME	 DYNATRON CORPORATION TITLE: 3U Active Cooler B14 BOM & Exploded Assembly Drawing
DRAWN	03/14/2017	Engr	
CHECKED	03/14/2017	LANG	
ENG. APPR.			
MFG. APPR.			
D.A.			
COMMENTS:			
		DWG. No:	DYN-EP-B14
		REV	0.0

NOTES:

1. THE FIGURE IS FOR REFERENCE ONLY, AND NOT FOR SCALE
2. OVERALL DIMENSION : 90 x 90 x 110 mm
3. OVERALL WEIGHT : 600 g



Certificate of Environment Protection

環保證明書

Document Number: RH-B14-R0

Customer: 客戶名稱:	Company: _____ Address: _____ Phone Number: _____ - _____ - _____
Issue Date:	06/02/2016
Product Model Number:	B14

Dynatron Corporation hereby declares and certifies that all components manufactured are RoHS compliant according to the definitions and restrictions given by the European Union's Restriction (Directive 2002/95/EC) (Decision 2011/65/EU) RoHS 2, on the restriction of the use of certain Hazardous Substances in the electrical and electronic equipment. Also, compliance to the most recent list of substances on the REACH candidate list.

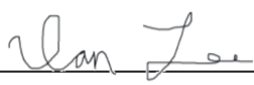
Number of substances on the Candidate List: 168 (last updated: 17/12/2015)

No exemptions are claimed in order for the part to be compliant with the RoHS directive.

Dynatron Corporation / 政久興業股份有限公司 證明所有產品、零件 (包括附屬品, 包裝類) 之環境管理物質完全符合 RoHS, WEEE, 及該環保標準之規定, 並承諾遵循以上之證明。

Dynatron Corporation.
33200 Western Ave,
Union City, CA 94587
www.Dynatron-corp.com

Title (職務): _____ ASSISTANT-MANAGER _____

Signature (簽字): _____  _____

Date: 06 / 02 / 2016