

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SUNON

SPECIFICATION FOR APPROVAL

CUSTOMER :

MODEL NO : **RA000-002999DN**

DESCRIPTION : LED Cooling Module

DIMENSIONS : 85X85X20 mm

SUNON SPEC. NO. : C01000680G-00

CUSTOMER

APPROVAL NO. APPROVED BY

CUSTOMER :

(AUTHORIZED)

DRAWN	CHECKED	APPROVED	SPEC. NO	C01000680G-00
Alice-			ISSUED DATE	01.16.2012
	Don:	Ta alaa.	EDITION	0
Chang 1/16	Dani	Jacky	REVISION DATE	

建準電機工業股份有限公司

SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD.

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SPECIFICATION FOR APPROVAL

CHECK LIST

1. SCOPE	Page 2
2. SPECIFICATIONS	Page 3
3. DIMENSION	Page 4
4. NOTES	Page 5
5.Declaration of RoHS	Page 6

SUNONWEALTH ELECTRIC
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PAGE	1 OF 6
SPEC. NO.	C01000680G-00
ISSUED DATE	01.16.2012
EDITION	0
REVISION DATE	2012 01

1.SCOPE

This compact LED cooling module designed for heat dissipation of LED lamp.

The following specification outlines the performance of this module for LED lighting system.

SUNONWEALTH ELECTRIC
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PAGE	2 OF 6	
SPEC. NO.	C01000680G-00	
ISSUED DATE	01.16.2012	
EDITION	0	
REVISION DATE	2012.01	

MODEL: RA000-002999DN

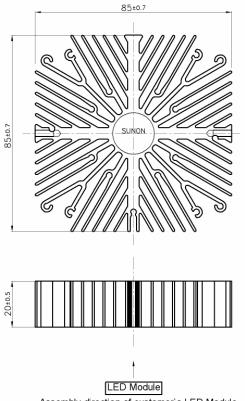
2.SPECIFICATIONS

1. Application	Heat 8.5 W
2. Heat Sink Dimension	85 X 85 X 20 mm
3. Heat Sink Material	AL6063
4. Cooling Method	N/A
5. Fan Speed (with Heat Sink)	N/A
6. Rated Voltage	N/A
7. Rated Current	N/A
8. Power Consumption	N/A
9. Fan Bearing System	N/A
10. Cooling Module Noise @ 1M	N/A
11. Operating Voltage Range	N/A
12. Operating Temperature	-10 to + 70 deg. C
13. Storage Temperature	-40 to + 70 deg. C
14. Weight	122 g
15. Thermal resistance	2.78°C/W(based on Fortimo DLM 1100 lm)
16. Tolerance	N/A
17. Life Expectancy(MTTF)	N/A
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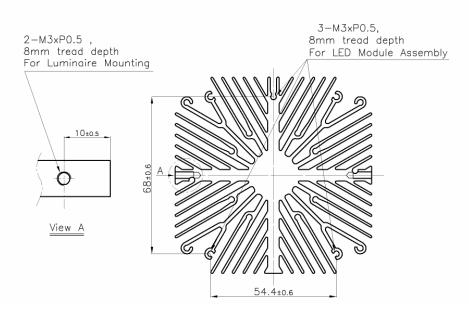
	PAGE	3 OF 6
SUNONWEALTH ELECTRIC	SPEC. NO.	C01000680G-00
MACHINE INDUSTRY CO., LTD.	ISSUED DATE	01.16.2012
建準電機工業股份有限公司	EDITION	0
	REVISION DATE	₩ 研 發 🕆

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3.DIMENSION



Assembly direction of customer's LED Module



SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD. 建準電機工業股份有限公司

PAGE	4 OF 6		
SPEC. NO.	C01000680G-00		
ISSUED DATE	01.16.2012		
EDITION	0		
REVISION DATE	2012.01.1		

Notes

I. SPECIFICATION MODIFICATION

- 1. SUNON offers engineering assistance on module installation and cooling system design.
- 2. All changes, modifications and/or revisions to the specifications, if any, are incorporated in the attached specifications.
- 3. No changes, modifications and/or revisions to these specifications are effective absent agreement, by both Sunon and the customer, in writing.
- 4. This module will be shipped in accordance with the attached specification unless SUNON and the customer have agreed otherwise, in writing, as specificied in Paragraph 3, above.

II. OTHER

- 1. DO NOT operate this module in proximity to hazardous materials such as organic silicon, cyanogens, formalin, phenol, or corrosive gas environments including, but not limited to, H₂S, SO₂, NO₂, or Cl₂.
- 2. Unless otherwise noted, all testing of this module is conducted at 25°C ambient temperature and sixty-five percent (65%) relative humidity.
- 3. DO NOT store this module in an environment with high humidity. This module must be stored in accordance with the attached specifications regarding storage temperature. If this module is stored for more than 6 months, SUNON recommends functional testing before using.
- 4. SUNON reserves the right to use components from multiple sources at its discretion. The use of components from other sources will not affect the specifications as described herein.

III. WARRANTY

This module is warranted against all defects which are proved to be fault in our workmanship and material for one year from the date of our delivery. The sole responsibility under the warranty shall be limited to the repair of the module or the replacement thereof, at SUNON's sole discretion. SUNON will not be responsible for the failures of its module due to improper handing, misuse or the failure to follow specifications or instructions for use. In the event of warranty claim, the customer shall immediately notify SUNON for verification. SUNON will not be responsible for any consequential damage to the customer's equipment as a result of any module proven to be defective.

SUNONWEALTH ELECTRIC	PAGE	5 OF 6
MACHINE INDUSTRY CO., LTD.	SPEC. NO.	C01000680G-00
建準電機工業股份有限公司	ISSUED DATE	01.16.2012
(大)	EDITION	0
	REVISION DATE	> 研發音
	REVISION DATE	2012.01

Declaration of RoHS

Control declaration of environment-related substances/materials

1. In accordance with the Restriction of Hazardous Substances (RoHS) Directive, Sunon product models have complied with law and discipline not to employ the forbidden substances, and restrict the allowable concentration of some limited substances deliberately in our components.

No		Substance	Criteria
1	CFCs & HCFCs (ozone depleting substances)		Forbidden
2	Chlorinated Organic Solvent		Forbidden
		Plastic (Frame, Impeller, wire harness, etc.)	<100ppm
	Lead and its compounds	Solder	<1000ppm
3		Steel alloy	<3500ppm
		Aluminium alloy	<4000ppm
		Copper alloy	<4wt%
		Solder	<20ppm
4	Cadmium and its compounds	Parts composed of metals containing zinc	<100ppm
-		(e.g. brass, zinc for die casting)	~100ppiii
		Plastic	<5ppm
5	PBBs and PBDEs		Forbidden
6	PCB and PCT		Forbidden
7	CP, Short-chain Chlorinated paraffins C10-13, Cl ≥48 wt%		Forbidden
8	Mirex		Forbidden
9	PCN		Forbidden
10	Hexavalent Chromium compounds		<100ppm
11	Mercury and its compounds		Forbidden
12	Asbestos		Forbidden
13	Organic Tin compounds		Forbidden
14			Forbidden
15	TBBP-A in external case plastic parts of products (PCB is exempted)		<1000ppm
16	Nickel in external case parts, which are likely to result in prolonged skin exposure		<1000ppm

SUNONWEALTH ELECTRIC	PAGE	6 OF 6
MACHINE INDUSTRY CO., LTD.	SPEC. NO.	C01000680G-00
,	ISSUED DATE	01.16.2012
建準電機工業股份有限公司	EDITION	0
	REVISION DATE	一
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