

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

MODEL NO : SA000-12004

DESCRIPTION : Thermal Module

DIMENSIONS : § 85X75 mm

SUNON SPEC. NO. : C01000730F-01

CUSTOMER

APPROVAL NO. APPROVED BY

CUSTOMER :

(AUTHORIZED)

DRAWN	CHECKED	APPROVED	SPEC. NO	C01000730F-01
			ISSUED DATE	02. 18. 2012
Qian	Amy	Eric	EDITION	0
2/18			REVISION DATE	

建準電機工業股份有限公司

SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD.

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KAOHSIUNG CITY 80673, TAIWAN (R.O.C) FAX:886-7-8230505/8230606/8231010

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SPECIFICATION FOR APPROVAL

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MODEL: SA000-12004

1.SPECIFICATIONS

1. Application	Cpu Chipeset 10W
2. Heat Sink Dimension	∮ 85X75 HF
3. Heat Sink Material	AL6063(陽極黑色)
4. Cooling Method	N/A
5. Thermal Grease / PAD	N/A
6. Fan Dimension	N/A
7. Fan Speed (with Heat Sink)	N/A
8. Fan Airflow (with Heat Sink)	N/A
9. Fan Rating Voltage	N/A
10. Fan Rating Current (with Heat Sink)	N/A
11. Fan Power Consumption (with Heat Sink)	N/A
12. Fan Bearing Type	N/A
13. Fan Connector	N/A
14. Cooling Module Noise	N/A
15. Fan Operating Voltage Range	N/A
16. Operating Temperature	-10 to + 70 deg. C
17. Storage Temperature	-40 to + 70 deg. C
18. Weight	342 g
19. Life Expectance	N/A

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2.DIMENSION 75±0.25 3D Drawing 0 **★**Ø38±0.2 **標籤貼紙9*9mm** 1.37(26pcs) 10 Section A-A 70±0.25 2-C1X1 38.5±0.2 ★22.5±0.2 Section B-B Section C-C

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3. CPK TEST

1. CPK TEST

機種名:\$A000-12004(Seeger KK8575A)		試產日期: 2012/2/16
No	1	2
(項目)	總高度	內徑
規格中心値	75.000	38.000
規格上限	75.250	38.200
規格下限	74.750	37.800
UNIT (單位)	mm	mm
ave	75.144	38.056
max	75.226	38.156
min	75.109	38.028
1	75.226	38.038
2	75.148	38.048
3	75.153	38.053
4	75.136	38.036
5	75.146	38.054
6	75.156	38.056
7	75.135	38.035
8	75.135	38.065
9	75.147	38.047
10	75.137	38.057
11	75.126	38.036
12	75.146	38.156
13	75.128	38.046
14	75.156	38.056
15	75.126	38.046
16	75.201	38.101
17	75.153	38.053
18	75.135	38.035
19	75.135	38.125
20	75.158	38.058
21	75.138	38.038
22	75.125	38.059
23	75.135	38.035
24	75.126	38.126
25	75.125	38.045
26	75.136	38.046
27	75.129	38.029
28	75.109	38.029
29	75.119	38.039
30	75.152	38.052
31	75.209	38.109
32	75.156	38.056
33	75.145	38.045
34	75.118	38.028
35	75.129	38.038

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3. CPK TEST

品質總合確認書DATA SHEET

機種名:SA000-12004(Seeger KK8575A)

NO	項目	規格	平均値 avg	標準偏 差σ	最大 値max	最小 値 min	試料數	l	能力 cpk	備考
1	總高度	74.750~75.250mm	75.144	0.025	75.226	75.109	35	3.383	1.437	
2	內徑	37.800~38.200mm	38.056	0.030	38.156	38.028	35	2.210	1.587	

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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.

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Declaration of Restricted Materials

Control declaration of environment- related substances/ materials

1. In accordance with the Restriction of Hazardous Substances (RoHS) Directive and specific market requirements, Sunon Halogen-Free Product 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.)	
		Solder	<1000ppm
3	Lead and its compounds	Steel alloy	<3500ppm
		Aluminium alloy	<4000ppm
		Copper alloy	<4wt%
		Solder	<20ppm
4	Cadmium and its compounds	Parts composed of metals containing zinc (e.g. brass, zinc for die casting)	<100ppm
		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	Azo compounds		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
	Halogen-Free Product:		Br<900ppm
1.5	Brominated/chlorinated flame retardants (other than PBBs or PBDEs),		Cl<900ppm
17	applicatable item: frame, bobbin, impeller, lear wire, connector, mylar insulator.		Br+Cl<1500ppm
			**
	PAHs and its 16 compounds in unusual contact material		BaP < 20ppm
18			16 compounds total
			content < 200ppm
	PCB and electroplating material, PFOS content complianced with 2006/122/EC		PFOS <1000ppm;
19			coating material
			PFOS $< 1\mu g/m 2$

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