

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 : SA000-12055

DESCRIPTION : Thermal Module

DIMENSIONS : § 85X50 mm

SUNON SPEC. NO. : C01001230F-01

CUSTOMER

APPROVAL NO. APPROVED BY

CUSTOMER

(AUTHORIZED)

DRAWN	CHECKED	APPROVED	SPEC. NO	C01001230F-01
*****			ISSUED DATE	01. 10. 2013
JING	Amy	Eric	EDITION	0
			REVISION DATE	

建準電機工業股份有限公司

SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD.

NO. 30, LN. 296, XINYA RD., QIANZHEN DIST., TEL:886-7-8135888

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

URL:http://www.sunon.com E-mail: sunon@email.sunon.com.tw

SPECIFICATION FOR APPROVAL

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MODEL: SA000-12055

1.SPECIFICATIONS

1. Application	N/A				
2. Heat Sink Dimension	\$ 85 X 50 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	245 g				
19. Life Expectance	N/A				

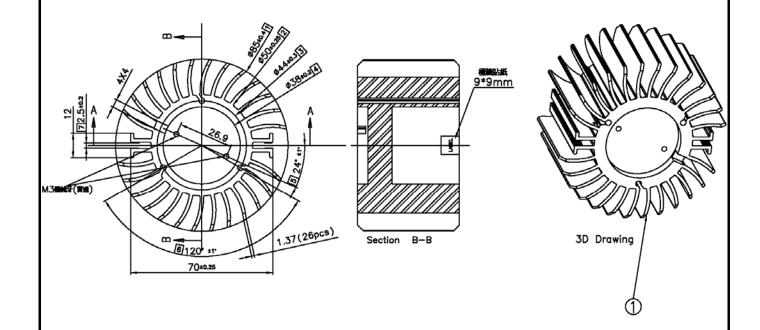
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MACHINE	INDU	STRY	CO.,	LTD.

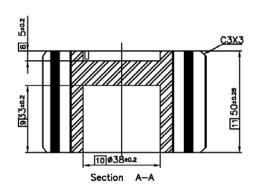
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2.DIMENSION





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3.FAI & CPK TEST

1.FAI TEST

FAI DATA SHEET

Part N	um	Supplier:	SUNON	Date:	2013/1/7	New:	
Part D	es Seeger KK8550_BLACK	ISR No:		Cavity / Tool # :		Revised:	
Revisi	on	Material Spec:	See Drawing	Inspector:	范發豫	Resubmission:	

MOI-Method of inspection abbreviation: HG = Height gauge, MIC = Micrometer, DC = Dial Caliper, P = Protractor, OC = Optical Comparator, CG = Checking Gauge, CMM = Coordinate Measuring Machine,

MM = Optical Coordinate Measuring Machine, HT = Hardness Trester, TG = Thickness Gauge, VIS = Visual, PG = Plug Gauge,

OTHER

OTHER:	THER														
ITEM	NOMINAL.	+TOL	-TOL		Sample Number		De	viation from Nor	ninal	Mean	% To	plerance	Accept	/Reject	Inspection Method
HEM	NOMINAL	TIOL	-10L	1	2	3	1	2	3	меан	UPPER	LOWER	HIGH	LOW	поресаот местаа
1	85.000	0.400	0.400	85.020	85.150	84.820	0.020	0.150	-0.180	84.997	38%	45%	Accept	Accept	CMM
2	50.000	0.250	0.250	50.120	49.960	49.850	0.120	-0.040	-0.150	49.977	48%	60%	Accept	Accept	CMM
3	44.000	0.300	0.300	43.960	43.950	44.050	-0.040	-0.050	0.050	43.987	17%	17%	Accept	Accept	CMM
4	38.000	0.200	0.200	37.950	37.990	38.120	-0.050	-0.010	0.120	38.020	60%	25%	Accept	Accept	CMM
5	24.000	1.000	1.000	24.500	24.600	23.800	0.500	0.600	-0.200	24.300	60%	20%	Accept	Accept	CMM
6	120.000	1.000	1.000	120.100	120.200	119.900	0.100	0.200	-0.100	120.067	20%	10%	Accept	Accept	CMM
7	2.500	0.200	0.200	2.510	2.380	2.480	0.010	-0.120	-0.020	2.457	5%	60%	Accept	Accept	CMM
8	5.000	0.200	0.200	5.030	5.060	4.990	0.030	0.060	-0.010	5.027	30%	5%	Accept	Accept	CMM
9	33.000	0.200	0.200	33.030	32.980	32.940	0.030	-0.020	-0.060	32.983	15%	30%	Accept	Accept	CMM
10	38.000	0.200	0.200	38.110	37.960	37.950	0.110	-0.040	-0.050	38.007	55%	25%	Accept	Accept	CMM
11	50.000	0.250	0.250	50.110	50.010	49.990	0.110	0.010	-0.010	50.037	44%	496	Accept	Accept	CMM

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3. CPK TEST

1. CPK TEST

品質總合確認書DATA SHEET

機種名: SA000-12055(Seeger KK8550-BLACK)

試產日期:2013/1/3

No	1	2		
(項目)	總高度	內徑		
規格中心値	50.000	38.000		
規格上限	50.250	38.200		
規格下限	49.750	37.800		
UNIT (單位)	mm	mm		
ave	50.009	38.058		
max	50.109	38.186		
min	49.909	38.029		
1	50.026	38.038		
2	50.048	38.048		
3	50.035	38.053		
4	50.047	38.031		
5	50.037	38.054		
6	50.026	38.056		
7	49.946	38.035		
8	49.928	38.065		
9	49.993	38.047		
10	49,986	38.057		
11	49.946	38.036		
12	49.956	38.186		
13	50.035	38.046		
14	50.056	38.056		
15	50.096	38.046		
16	50.085	38.101		
17	50.101	38.053		
18	50.053	38.035		
19	50.035	38.125		
20	49.926	38.058		
21	49.925	38.038		
22	50.036	38.059		
23	49.989	38.035		
24	50.005	38.126		
25	49,988	38.045		
26	50.038	38.046		
27	49.925	38.029		
28	49,909	38.029		
29	49,919	38.039		
30	50.052	38.052		
31	50.109	38.109		
32	50.056	38.056		
33	49.945	38.045		
34	50.018	38.048		
35	50.029	38.038		

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3. CPK TEST

品質總合確認書DATA SHEET

試作品.量試品.量產品					承認	審查	作成			
機種名:SA000-12055(Seeger KK8550-BLACK)										
NO	項目	規格	平均値 avg	標准偏 差 σ	最大 値max	最小 値 min	試料數		能力 cpk	備考
1	總高度	49.750~50.250mm	50.009	0.057	50.109	49.909	35	1.461	1.411	
2	內徑	37.800~38.200mm	38.058	0.033	38.186	38.029	35	2.014	1.433	

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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 2011/65/EU 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, w	<100ppm		
		Solder	<1000ppm		
	Lead and its compounds	Steel alloy	<3500ppm		
	-	Aluminium alloy	<4000ppm		
		Copper alloy	<4wt%		
	Cadmium and its compounds	Solder		<20ppm	
4		Parts composed of metals co (e.g. brass, zinc for die casti	<100ppm		
		Plastic	<5ppm		
5	PBBs and PBDEs			Forbidden	
6	PCB and PCT			Forbidden	
7		ted paraffins C10-13, C1≥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	
17	Hexabromocyclododecano	e (HBCDD)		<1000ppm	
18	Di-butyl Phthalate (DBP)			<1000ppm	
19	Benzyl butyl Phthalate (B			<1000ppm	
20	Di-ethylhexyl Phthalate (l	,		<1000ppm	
21	Di-isobutyl Phthalate (DI)	BP)		<1000ppm	
		lame retardants (other than l	,,,	Br<900ppm	
22			Cl<900ppm		
	insulator.		Br+Cl<1500ppn		
23	3 PAHs and its 16 compounds in iiniisiial contact material			BaP < 20ppm	
	111115 und 165 To compoun	m unusum commet materi	***	Total <200ppm	
24	PCB and electroplating material, PFOS content complianced with 2006/122/EC			PFOS ≤1000ppr coating materia PFOS ≤ 1µg/m ²	
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