imall

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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



SUNON

SPECIFICATION FOR APPROVAL

MODEL NO : SA0			00-12003	
DES	DESCRIPTION : Ther DIMENSIONS : § 562			
DIM				
SUN	SUNON SPEC. NO. : C010			
APP	TOMER ROVAL NO.	:		
CUS	ROVED BY TOMER horized)	•		
DRAWN	CHECKED	APPROVED	SPEC. NO	C01000720F-01
_			ISSUED DATE	02. 18. 2012
Fang	Amy	Eric	EDITION	3
			REVISION DATE	06. 18. 2012
建準電機工業股份 SUNONWEALTH	子有限公司 I ELECTRIC	MACHINE INI	DUSTRY CO., L'	ГD.
· · · ·	XINYA RD., QIAN		TEL:886-7-813588	8
KAOHSIUNG CI	·	AN (R.O.C)	FAX:886-7-823050	
URL:http://www.	sunon.com		E-mail: sunon@em	ail.sunon.com.tw

SPECIFICATION FOR APPROVAL

CHECK LIST

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3. CPK TEST	Page 4~5
4. NOTES	Page 6
5. Declaration of RoHS	Page 7

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	REVISION DATE	06.18.2012 ^{3派工業}

◎ 研發部 2012.06.18 3 行章

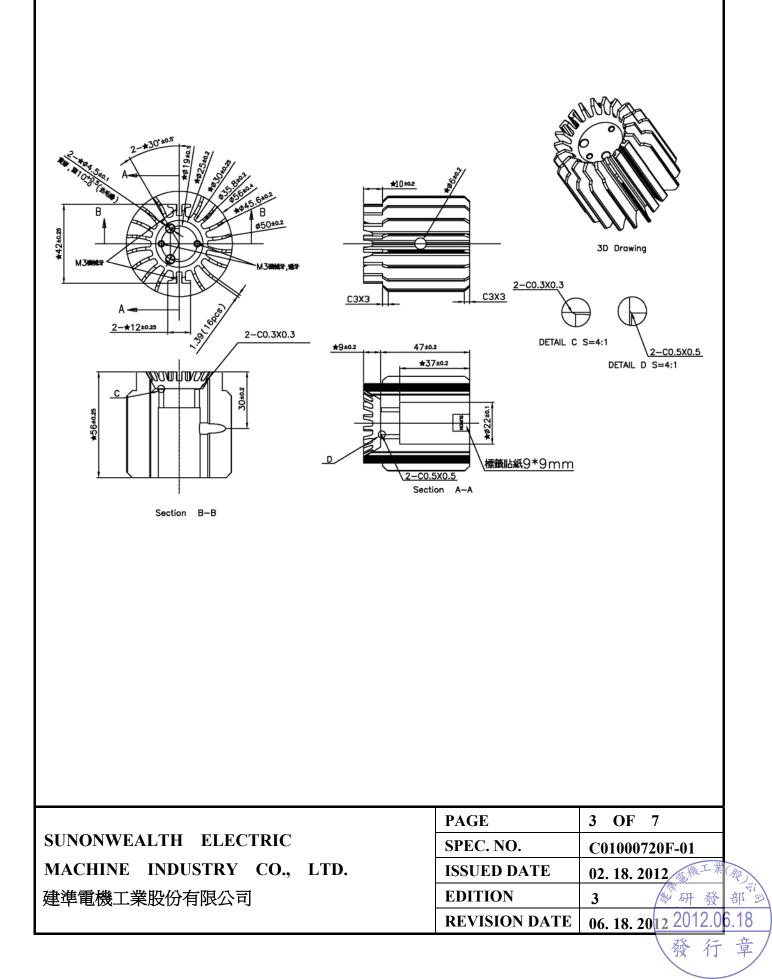
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MODEL : SA000-12003

1.SPECIFICATIONS

1. Application	t 10W			
Heat Sink Dimension § 56X56 HF				
3. Heat Sink Material	AL6063			
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	N/A		
14. Cooling Module Noise	N/A			
15. Fan Operating Voltage Range	N/A	N/A		
16. Operating Temperature	-10 to + 70 deg. C			
17. Storage Temperature	-40 to + 70 c	leg. C		
18. Weight	104 g			
19. Life Expectance				
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2.DIMENSION



3. CPK TEST

1. CPK TEST

No	<u>)</u> 1	2	試產日期:2012/2/16 3
(Item)	dimension of hole location	outer diameter	diameter
Spec.	19.000	50.000	6.000
upper limit	19.100	50.200	6.200
lower limit	18.900	49.800	5.800
UNIT	mm	mm	mm
1	19.038	50.053	6.053
2	18.943	50.068	6.068
3	18.973	50.048	6.048
4	18.990	50.047	6.047
5	18.950	50.053	6.053
6	18.959	50.050	6.050
7	18.990	50.016	6.016
8	18.989	50.049	6.049
9	18.989	50.086	6.086
10	18.980	50.043	6.043
11	18.938	50.037	6.037
12	18.959	49.899	5.865
13	18.989	50.081	6.081
14	18,990	50.039	6.039
15	18.981	50.015	6.015
16	18.986	50.087	6.087
17	18.968	50.093	6.093
18	18.948	50.051	6.051
19	18,990	50.033	6.033
20	18.992	50.026	6.026
21	18.995	50.093	6.093
22	18.993	50.046	6.046
23	18.991		
23		50.057	6.057
	18.973	50.045	6.045
25	18.971	50.093	6.093
20	18.981	50.038	6.038
28	18.988	50.034	6.034
29	18.980	50.093	6.093
	18.977	50.051	6.051
30	18.994	50.053	6.053
31	18.968	50.043	6.043
32	18.970	50.031	6.031
33	18.978	50.051	6.051
34	18.990	50.058	6.058
35	18.998	50.043	6.043
		PAGE	4 OF 7
WEALTH ELEC	CTRIC	SPEC. NO.	C010007201
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3. CPK TEST

Project Name : SA000-12003(Seeger KK56H56)

TTOJOCETAL	IIE · SA000-12005(-							
NO	Item	Spec.	average	standard of deviation σ	max	min	quantity of trial run		cess ility cpk	remark
1	dimension of hole location	124.99~124.19	18.979	0.019	19.038	18.938	35	1.795	1.424	
2	outer diameter	6.3~6.5	50.049	0.034	50.093	49.899	35	1.975	1.495	
3	diameter	48.22~48.42	6.048	0.038	6.093	5.865	35	1.738	1.324	

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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
	Lead and its compounds	Plastic (Frame, Impeller, wire harness, etc.) Solder Steel alloy	<100ppm <1000ppm <3500ppm
3	Leau and its compounds	Aluminium alloy Copper alloy	<4000ppm <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 p	oaraffins C10-13, Cl≥48 wt%	Forbidden
8	Mirex		Forbidden
9	PCN		Forbidden
10	Hexavalent Chromium compo	<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
17	Halogen-Free Product: Brominated/chlorinated flame retardants (other than PBBs or PBDEs),		Br<900ppm Cl<900ppm Br+Cl<1500ppm
18	PAHs and its 16 compounds in	BaP < 20ppm 16 compounds total content < 200ppm	
19	PCB and electroplating material, PFOS content complianced with 2006/122/EC		PFOS <1000ppm; coating material PFOS < 1µg/m 2

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