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



SPECIFICATION FOR APPROVAL

MOI	DEL NO	: SA000	: SA000-12024				
DES	CRIPTION	: Therm	: Thermal Module				
DIM	ENSIONS	: 37.3X1	9X10 HF				
SUN	ON SPEC. NO). : C0100	1170F-01				
	TOMER	•					
	APPROVAL NO.						
	ROVED BY TOMER	:					
(AUTI	HORIZED)						
DRAWN	CHECKED	APPROVED	SPEC. NO	C01001170F-01			
			ISSUED DATE	11. 13. 2012			
JING	Amy	Eric	EDITION	0			

			REVISI	ON DATE	
建準電機工業股份	}有限公司				
SUNONWEALTH	H ELECTRIC M	MACHINE	INDUSTRY	CO. , L [*]	ГD.
No. 30, LN. 296, X	XINYA RD., QIAN	ZHEN DIS	T TEL:886-	7-8135888	
KAOHSIUNG CI'	TY 80673, TAIWA	N(R. O. C)	FAX:886-	7-8230505/	/8230606/8231010
URL:http://www.s	sunon.com		E-mail: su	unon@ema	il.sunon.com.tw

SPECIFICATION FOR APPROVAL

CHECK LIST

發行章

1. SPECIFICATIONS	 Page 2
2. DIMENSION	 Page 3~4
3. FAI & CPK TEST	 Page 5~6
4. NOTES	 Page 7
5. Declaration of RoHS	 Page 8

	PAGE	1 OF 8
SUNONWEALTH ELECTRIC	SPEC. NO.	C01001170F-01
MACHINE INDUSTRY CO., LTD.	ISSUED DATE	11. 13. 2012
建準電機工業股份有限公司	EDITION	0
/ 一	REVISION DATE	
2012.11.10		

MODEL : SA000-12024

1.SPECIFICATIONS

1. Application	N/A				
2. Heat Sink Dimension	37.3X19X1	0 HF			
3. Heat Sink Material	AL6063-T5(洗白)				
4. Cooling Method	N/A				
5. Thermal Grease / PAD	BP410				
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	7.3 g				
19. Life Expectance	N/A				
		PAGE	2 OF 8		
SUNONWEALTH ELECTRIC		SPEC. NO.	C01001170F-01		
MACHINE INDUSTRY CO., LTE).	ISSUED DATE	11. 13. 2012		
建準電機工業股份有限公司		EDITION	0		
11.15		REVISION DATE			

章

²研 201

2.DIMENSION 9.5 ഹ 3.2 1 ★30.9±0.2 3D drawing 3 ★10±0.4 7*2.27 翅膠扣 8*1 2-ø6.4*15.5L HF 4 **★**19±0.4 2 ★37.3±0.4 拉拔 ø ۲ ★ ___ 0.1 導熱膠片 13*13*0.25t_HF PAGE 3 OF 8 SUNONWEALTH ELECTRIC SPEC. NO. C01001170F-01 CHINE INDUSTRY CO., LTD. **ISSUED DATE** 11. 13. 2012 建準電機工業股份有限公司 **EDITION** 0 2012 11.15 **REVISION DATE**

發 行 章

研

			Ì	
		MAR		
\bigcirc	~			
4	JF		〜 穿過sink孔Ø3	D.I PCB4
(3)				
$\mathbf{\mathbf{\nabla}}$				
1		/		
	-			
3	導熱膠片	A507006460F	13*13*0.25t H	1F
2	散熱片	A212019760F	37.3*19*10 HF	
1	塑膠扣		ø6.4*15.5L HF	
1				
1 項次	名稱	料號	規	格

3.FAI & CPK TEST

1.FAI TEST

發行

章

		Supplier: Gtw Pm V3: 19K97X10 被軍運動開始ust ISP No:			SUNON			Date:	2012/11/9			New:							
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	\vdash	Gtw P	Pro V3_19	9X37X10_067	電過證序pusi														
1 30.900 0.200 30.950 31.010 30.810 0.050 0.110 -0.090 30.923 55% 45% Accept Accept CMM< 2 37.300 0.400 0.400 37.150 37.320 37.410 -0.150 0.020 0.110 37.293 27% 37% Accept Accept CMM< 3 10.000 0.400 9.950 10.050 10.060 -0.050 0.060 10.020 15% 13% Accept Accept CMM<		Materiai spec:			See Drawing	t Drawing Inspector: 物愛知				Resubmission:									
1 30.900 0.200 30.950 31.010 30.810 0.050 0.110 -0.990 30.923 55% 45% Accept Accept CMA<	DRAM NG		MINIA	+TOI	-70	ş	Sample Number		De	viation from No	minal	Man	% Ti	olerance	Accep	bReject	Instruction Mathed	Supplier Remarks	Dell Ecolog
2 37.300 0.400 0.400 37.150 37.320 37.410 -0.150 0.020 0.110 37.293 27% 37% Accept Accept \M4<	ION	-	\rightarrow			1	2	з	1	2	3							o digitori nentana	
3 10.000 0.400 9.950 10.050 10.060 -0.050 0.050 10.060 10.020 15% 13% Accept Accept CMM	1																		
	3	10	0.000	0.400	0.400	9.950	10.050	10.060	-0.050	0.050	0.060	10.020	15%	13%			CMM		
						LTH					Τ D .				E C. NO. /ED D.		CO	OF 10011 13. 20	70F-
建準電機工業股份有限公司 EDITION 0	M 業()	A	CH	IINI	E I	INDU	STR	Y			TD.			SPEC ISSU	C. NO. IED D.		C0	10011	70F-

3.FAI & CPK TEST

2.CPK TEST

品質總合確認書DATA SHEET

		總合確認書DATA SI		
機種名:SA000	-12024(Gtw Pro V3-19x37 No	x10新高溫塑膠pusb pips) 1	試産日期:2012/11/3 2	7
	(項目)	長度	寬度	
则	見格中心値	37.300	19.000	-
	規格上限	37.700	19.400	
	規格下限	36.900	18.600	-
1U	NIT(單位)	mm	mm	
	ave	37.375	19.064	
	max	37.606	19.256	
	min	37.325	19.001	
	1	37.526	19.038	
	2	37.348	19.048	
	3	37.353	19.153	
	4	37.336	19.036	
	5	37.406	19.054	
	6	37.405	19.056	
	7	37.335	19.035	
	8	37.355	19.065	
	9	37.347	19.047	
	10	37.403	19.057	
	11	37.326	19.036	
	12	37.346	19.026	
	13	37.358	19.146	
	14	37.404	19.056	
	15	37.406	19.026	
	16	37.401	19.001	
	17	37.403	19.053	
	18	37.335	19.035	
	19	37.335	19.025	
	20	37.408	19.058	
	21	37.338	19.038	
	22	37,325	19.059	
	23	37.402	19.035	
	24	37.326	19.026	
	25	37.325	19.045	
	26	37.336	19.046	
	27	37.329	19.229	
	28	37.339	19.029	
	29	37.359	19.239	
	30	37.402	19.052	
	31	37.409	19.009	
	32	37.606	19.256	
	33	37,409	19.045	
	34	37.358	19.028	
	35	37.329	19.038	
			PAGE	6 OF 8
SUNONWEALTH	ELECTRI	C	SPEC. NO.	C01001170F-01
MACHINE INDUS	TRY CO	., LTD.	ISSUED DATE	11. 13. 2012

建準電機工業股份有限公司

電機

≫ 研

發 部 3

2012.11.15

發行章

PAGE	6 OF 8
SPEC. NO.	C01001170F-01
ISSUED DATE	11. 13. 2012
EDITION	0
REVISION	
DATE	

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	7 OF 8
MACHINE INDUSTRY CO., LTD.	SPEC. NO.	C01001170F-01
建準電機工業股份有限公司	ISSUED DATE	11. 13. 2012
定华电极工术成仍有极公司	EDITION	0
工業(股)	REVISION DATE	

SUNON

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		Criteria	
1	CFCs & HCFCs (ozone deplet	Forbidden	
2	Chlorinated Organic Solvent	Forbidden	
		Plastic (Frame, Impeller, wire harness, etc.)	<100ppm
		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 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 plast	<1000ppm	
16	Nickel in external case parts, v exposure	<1000ppm	
17	Halogen-Free Product: Brominated/chlorinated flame applicatable item: frame, bobb insulator.	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 mater 2006/122/EC	ial, PFOS content complianced with	PFOS <1000ppm; coating material PFOS < 1µg/m 2

SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO., LTD. 建準電機工業股份有限公司	PAGE	8 OF 8
	SPEC. NO.	C01001170F-01
	ISSUED DATE	11. 13. 2012
	EDITION	0
業(_{段)}	REVISION DATE	

研 201

發

打