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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

CUSTOMER	:	
DESCRIPTION	:	DC BRUSHLESS FAN
DIMENSIONS	:	70X70X25 mm
MODEL	:	PMD1207PTB1-A
P/N	:	(2).GN
SUNON SPEC. NO.	:	D07006660G-00
APPROVAL NO.	:	
APPROVED BY	:	
(AUTHORIZED)		

					SPEC.NO	D07006660G-00			
			Kiddy		Kiddy Approved Ja		ISSUE DATE	04.26.2005	
DRAWN	Chin-jung 07/01	CHECKED	March	· IAPPRUVEL		APPROVED	APPROVED	Jacky	EDITION
	07701	March		-	REVISION DATE	07. 01. 2013			
						E.SPEC	EN70012		
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:886-7-8230505/8230606/82310								
URL:ht	URL:http://www.sunon.com E-mail: sunon@email.sunon.com.two								

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	DEL :		ESS FAN 1207PTB1-A N				
CHARACTERISTICS							
1. Motor Design	:	DC brus	shless 4 pole moto	r design.			
2. Insulation Resistance	:	More th	an 10M ohm betw	veen internal stator	and		
		lead wir	e(+) measured at	DC 500V.			
3. Dielectric Strength	:	Applied	AC 500V for one	minute or AC 600	V for		
		2 second	ls between housin	g and lead wire(+)			
4. Noise Level	:	Measure	ed in a semi-anech	oic chamber			
		with background noise level below 15					
		dB(A).]	The fan is running	g in free air with th	e		
			one at a distance				
		-	e fan intake.				
5. Input Power, Current & Speed	:	Measure	ed after continuou	ıs 10 minute			
		operatio	on at rated voltage	e in clean air, and			
		at ambie	ent temperature o	f 25 degrees C.			
6. Tolerance	:	±15% o	n rated power and	l current.			
7. Air Performance	:	Measur	ed by a double ch	amber. The values			
	-		-	n speed has stabiliz	bev		
				i specu nas stavinz			
		at rated	voltage.				
建準電機工業股份有限公司	SPEC	.NO	D07006660G-00	REVISION DATE	07. 01 2013		
SUNONWEALTH ELECTRIC		E DATE	04. 26. 2005	ΕΟΙΤΙΟΝ	1 D.C.C.		
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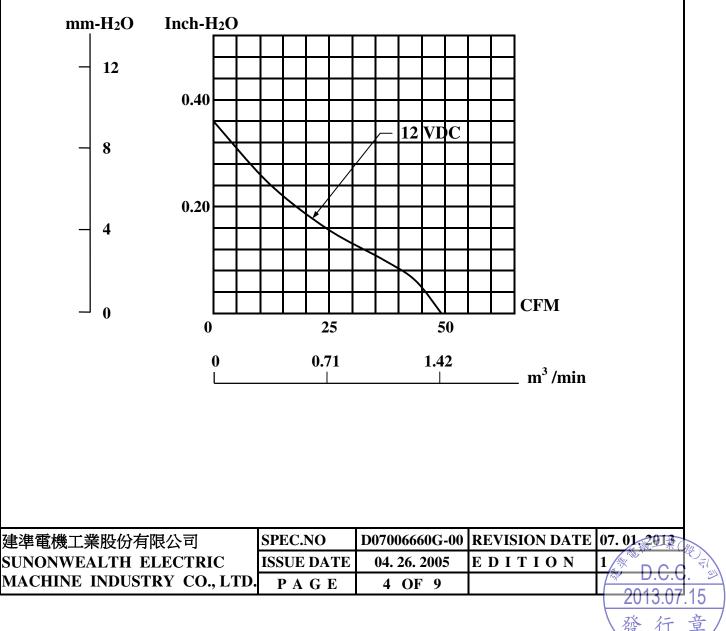
SPECIFICATIONS

MODEL: PMD1207PTB1-A P/N : (2).GN	-	10 3704	~				
1-1. Rated Voltage	:	12 VD	C				
1-2. Operating Voltage Range	:	6~13.8	VDC				
1-3. Starting Voltage	:	6 VDC	(25 deg. C PO	WER ON/OFF)			
1-4. Rated Speed	:	5100 R	PM ± 10 %				
1-5. Air Delivery	:	49 CFN	N				
1-6. Static Pressure	:	0.36 In	ch-H ₂ O				
1-7. Rated Current	:	: 0.37 AMP					
1-8. Rated Power	:	: 4.4 WATTS					
1-9. Noise Level	:	: 45 dB(A)					
1-10. Direction of Rotation	:	Counte	r-clockwise viev	ved from front of	fan blade		
1-11. Operating Temperature	:	-10 to -	⊦70 deg. C				
1-12. Storage Temperature	:	-40 to -	⊦70 deg. C				
1-13. Bearing System	:	Precisi	on ball bearing	system			
1-14. Weight	:	90 g					
1-15. Safety	:	UL/CU	R/TUV/CE A	pprovals			
1-16. Vibration	:	freque 3 direc	tions(X,Y,Z), in	ion 1.5G and s applied in all n cycles of 1 minute ime of 30 minute			
1-17. Locked Rotor Protection	:	Note: In force wh temperat the elect	ile the electricity is ure will be prevent rical power to the r cally restart when	pability he fan is locked by a s on, an increase in c ted by temporarily tu notor. The fan will the locked rotor cond	oil urning off		
建準電機工業股份有限公司	SPEC.N			REVISION DATE	- Stur		
SUNONWEALTH ELECTRIC	ISSUE		04. 26. 2005	ΕΟΙΤΙΟΝ	<i>1</i> ∞ D.C.C		
MACHINE INDUSTRY CO., LTD	P A	G E	3 OF 9		2013.0		



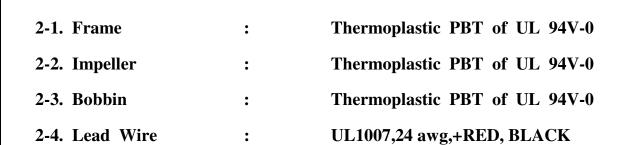
PERFORMANCE CURVES

STATIC PRESSURE

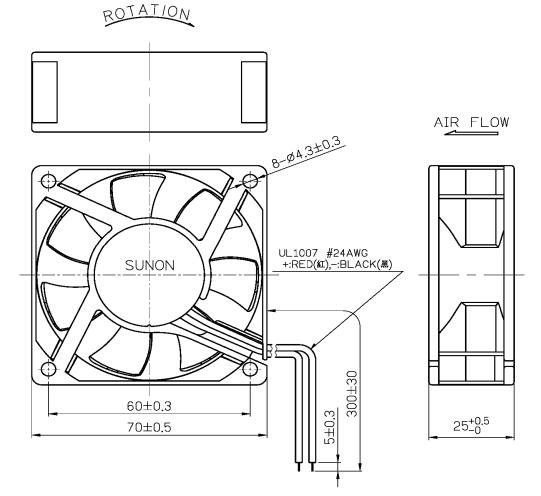


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MATERIAL



DIMENSIONS



1. Air Flow Direction: Toward label side.

2. Best Mounting Direction: Any orientation.

UNIT:mm

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建準電機工業股份有限公司	SPEC.NO	D07006660G-00	REVISION DATE	07.01.2013
SUNONWEALTH ELECTRIC	ISSUE DATE	04. 26. 2005	ΕΟΙΤΙΟΝ	1 D.C.C. 5
MACHINE INDUSTRY CO., LTD.	PAGE	5 OF 9		2013.07.15

Notes

I .SAFETY

- **1.** DO NOT use or operate this fan in excess of the limitations set forth in this specification. SUNON is not responsible for the non-performance of this fan and/or any damages resulting from its use, if it is not used or operated in accordance with the specifications.
- 2. SUNON recommends adding a protection circuit to the product or application in which this fan is installed, such as a thermo-fuse, or current-fuse or thermo-protector. The failure to use such a device may result in smoke, fire, electric shock by insulation degradation in cases of motor lead short circuit, overload, or over voltage, and/or other failure.
- 3. SUNON recommends installing a protection device to the product or application in which this fan is installed if there is a possibility of reverse-connection between VDC (+) and GND (-). The failure to install such a device may result in smoke, fire, and/or destruction, although these conditions may not manifest immediately.
- 4. This fan must be installed and used in compliance with all applicable safety standards and regulations.
- 5. Use proper care when handling and/or installing this fan. Improper handling or installation of this fan may cause damage that could result in unsafe conditions.
- 6. Use proper care during installation and/or wiring. Failure to use proper care may cause damage to certain components of the fan including, but not limited to, the coil and lead wires, which could result in smoke and/or fire.
- 7. DO NOT use power or ground PWM to control the fan speed. If the fan speed needs to be adjusted, please contact SUNON to customize the product design for your application.
- 8. For critical or extreme environments, including non stop operation, please contact SUNON and we will gladly provide assistance with your product selection to ensure an appropriate cooling product for your application.

建準電機工業股份有限公司	SPEC.NO	D07006660G-00	REVISION DATE	07.01,2013	AR
SUNONWEALTH ELECTRIC	ISSUE DATE	04. 26. 2005	EDITION		C. 3
MACHINE INDUSTRY CO., LTD.	PAGE	6 OF 9		2013 0	7 15

Notes

II. SPECIFICATION MODIFICATION

- 1. SUNON offers engineering assistance on fan 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 fan will be shipped in accordance with the attached specification unless SUNON and the customer have agreed otherwise, in writing, as specified in Paragraph 3, above.

III. OTHER

- 1. When building your device, please examine thoroughly any variation of EMC, temperature rise, life data, quality, etc. of this product by shock/drop/vibration testing, etc. If there are any problems or accidents in connection with this product, it should be mutually discussed and examined.
- 2. Use proper care when handling this fan. Components such as fan holders or bearings may be damaged, if touched with fingers or other objects. Additionally, static electricity (ESD) may damage the internal circuits of the fan.
- **3.** DO NOT operate this fan 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.
- 4. SUNON recommends that you protect this fan from exposure to outside elements such as dust, condensation, humidity or insects. Exposure of this fan to outside elements such as dust, condensation, humidity or insects may affect its performance and may cause safety hazards. SUNON does not warrant against damage to the product caused by outside elements.

建準電機工業股份有限公司	SPEC.NO	D07006660G-00	REVISION DATE	07. 01. 2013	R
SUNONWEALTH ELECTRIC	ISSUE DATE	04. 26. 2005	ΕΟΙΤΙΟΝ)
MACHINE INDUSTRY CO., LTD.	PAGE	7 OF 9		2013.0	7 15

Notes

- 5. This fan must be installed properly and securely. Improper mounting may cause harsh resonance, vibration, and noise.
- 6. Fan guards may prevent injury during handling or installation of the fan and are available for sale with this fan.
- 7. Unless otherwise noted, all testing of this fan is conducted at 25°C ambient temperature and sixty-five percent (65%) relative humidity.
- 8. DO NOT store this fan in an environment with high humidity. This fan must be stored in accordance with the attached specifications regarding storage temperature. If this fan is stored for more than 6 months, SUNON recommends functional testing before using.
- 9. 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.
- 10. The "Life Expectancy" of this fan has not been evaluated for use in combination with any end application. Therefore, the Life Expectancy Test Reports (L10 and MTTF Report) that relate to this fan are only for reference.

VI. WARRANTY

This fan 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 fan or the replacement thereof, at SUNON's sole discretion. SUNON will not be responsible for the failures of its fans 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 fans proven to be defective.

建準電機工業股份有限公司	SPEC.NO	D07006660G-00	REVISION DATE	07.01.2013	
SUNONWEALTH ELECTRIC	ISSUE DATE	04. 26. 2005	ΕΟΙΤΙΟΝ		
MACHINE INDUSTRY CO., LTD.	PAGE	8 OF 9		₩ D.C.	U.
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Declaration of RoHS

Control declaration of environment- related substances/ materials

1. In accordance with the Restriction of Hazardous Substances (RoHS) Directive 2011/65/EU, SUNON 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			Cr	riteria
1	CFCs & HCFCs (ozone depleti	ing substances)			Forb	idden
2	Chlorinated Organic Solvent				Forb	idden
		Plastic (Frame	e, Impeller, wire l	narness, etc.)	<100	ppm
		Solder			<100	0ppm
3	Lead and its compounds	Steel alloy			<350	0ppm
		Aluminium al	loy		<400	0ppm
		Copper alloy			<4wt	:%
		Solder			<20p	pm
4	Cadmium and its compounds	-	ed of metals conta nc for die casting)	ining zinc	<100	ppm
	Plastic				<5pp	m
5	PBBs and PBDEs					idden
6	PCB and PCT	PCB and PCT				
7	CP, Short-chain Chlorinated paraffins C10-13, Cl ≥48 wt%					idden
8	Mirex					idden
9	PCN					idden
10	Hexavalent Chromium compo	unds			<100	ppm
11	Mercury and its compounds				Forb	idden
12	Asbestos				Forb	idden
13	Organic Tin compounds				Forb	idden
14	Azo compounds					idden
15	TBBP-A in external case plastic parts of products (PCB is exempted)					0ppm
16	Nickel in external case parts, which are likely to result in prolonged skin exposure					0ppm
17	Hexabromocyclododecane (HBCDD)					0ppm
18	Di-butyl Phthalate (DBP)					0ppm
19	Benzyl butyl Phthalate (BBP)					0ppm
20	Di-ethylhexyl Phthalate (DEHP)					0ppm
21	Di-isobutyl Phthalate (DIBP)				<100	0ppm
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建準電機工業股份有限公司	SPEC.NO	D07006660G-00	REVISION DATE	07. 61 2013
SUNONWEALTH ELECTRIC	ISSUE DATE	04. 26. 2005	ΕΟΙΤΙΟΝ	1 D.C.C.
MACHINE INDUSTRY CO., LTD.	PAGE	9 OF 9		2013.07.15
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