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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	•	80X80X38 mm
MODEL	•	PMD1208PMB1-A
P/N	•	(2).GN
SUNON SPEC. NO.	:	D08021220G-00
APPROVED NO	:	
APPROVED BY	:	
(AUTHORIZED)		

						SPEC.NO	D08021220G-00			
						ISSUE DATE	06. 01. 2005			
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	06/03		March			REVISION DATE	06. 03. 2013			
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				ESS FAN D1208PMB1	-A	
	P/N		: (2).	GN		
CHARACTERISTICS						
1. Motor Design		:	DC br	ushless 4 pole mo	otor design.	
2. Insulation Resistance		:	More	than 10M ohm be	etween internal sta	itor and
			lead w	ire(+) measured	at DC 500V.	
3. Dielectric Strength		:	Applie	ed AC 500V for o	ne minute or AC 6	600V for
			2 seco	nds between hous	sing and lead wire((+)
4. Noise Level		:	Measu	red in a semi-and	echoic chamber	
			with b	ackground noise	level below 15	
			dB(A)	. The fan is runni	ing in free air with	the
			micro	phone at a distan	ce of one meter	
			from t	he fan intake.		
5. Input Power, Current & Spe	ed	:	Measu	red after continu	ious 10 minute	
			operat	ion at rated volta	age in clean air, an	d
			at aml	oient temperatur	e of 25 degrees C.	
6. Tolerance		:	±15%	on rated power a	and current.	
7. Air Performance		:	Measu	red by a double o	chamber. The valu	ies
			are re	corded when the	fan speed has stab	ilized
			at rate	ed voltage.		
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SUNON

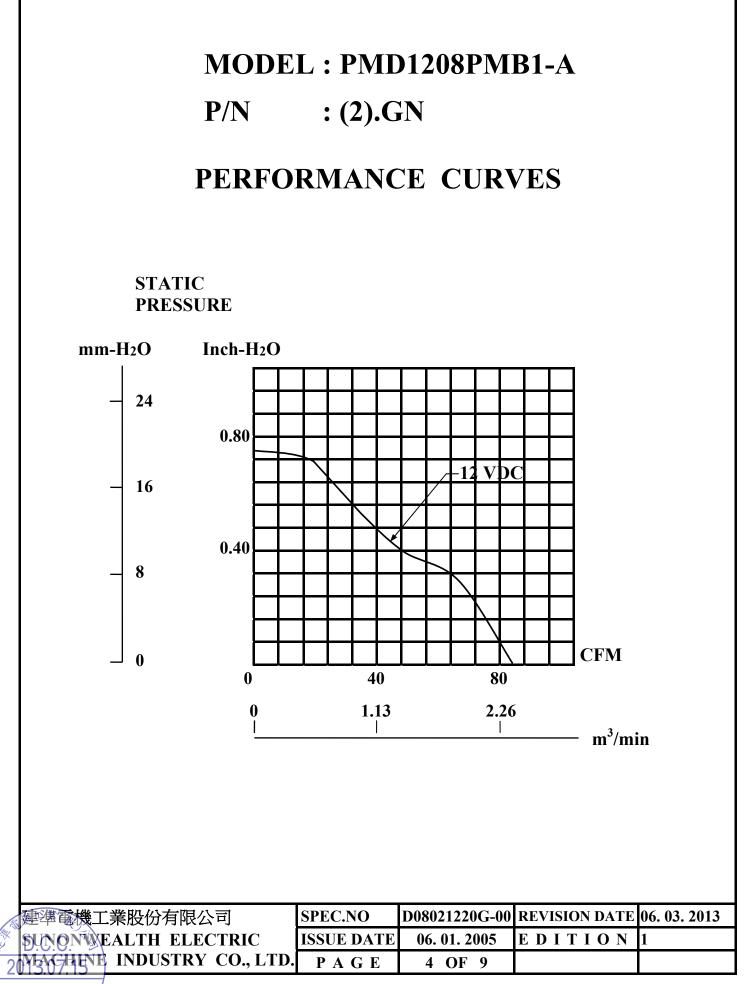
SPECIFICATIONS

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MODEL : PMD1208PMI P/N : (2).GN	B1-	Α					
1-1. Rated Voltage	:	12 VDC					
1-2. Operating Voltage Range	:	6~13.8 VI	DC				
1-3. Starting Voltage	:	6 VDC (25	5 deg. C POWI	ER O	N/O	FF)	
1-4. Rated Speed	:	5700 RPN	1 ± 10%				
1-5. Air Delivery	:	84.1 CFM	[
1-6. Static Pressure	:	0.74 Inch-	H ₂ O				
1-7. Rated Current	:	0.76 AMP)				
1-8. Rated Power	:	9.1 WAT	ГS				
1-9. Noise Level	:	55.2 dB(A	.)				
1-10. Direction of Rotation	:	Counter-clockwise viewed 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	:	Precision	ball bearing sy	stem			
1-14. Weight	:	175 g					
1-15. Safety	:	UL/CUR/	TUV/CE Appi	rovals	5		
1-16. Vibration	:	frequency 3 direction	of acceleration 5~50~5Hz is a ns(X,Y,Z), in cy vibration time	pplie ycles	d in of 1	all minut	e each,
1-17. Locked Rotor Protection	:	Note: In a si force while temperature the electrica	c Restart Capa tuation where the the electricity is on will be prevented l power to the mot y restart when the	fan is 1, an ir by ten or. Th	locke hcreas hpora he fan	se in co rily turi will	il ning off
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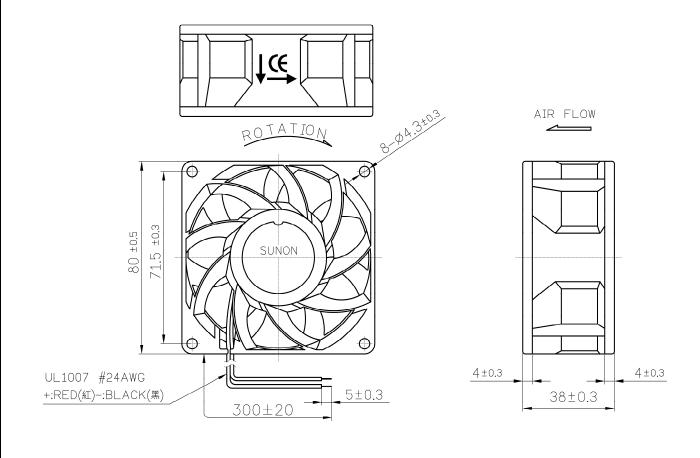
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MATERIAL

- 2-1. Frame
- 2-2. Impeller
- 2-3. Bobbin
- 2-4. Lead Wire

Thermoplastic PBT of UL 94V-0 Thermoplastic PBT of UL 94V-0 Thermoplastic PBT of UL 94V-0 UL1007,24 awg,+RED,-BLACK

DIMENSIONS



:

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1. Air Flow Direction: Toward label side.

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2. Best Mounting Direction: Any orientation.

UNITS : mm

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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 thermoprotector. The failure to use such a device may result in smoke, fire, electric shock by insulation degradation in cases of motor lock, 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.

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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.

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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 specfications 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.

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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	Criteria	
1	CFCs & HCFCs (ozone depletin	ng substances)	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			
6	PCB and PCT			
7	CP, Short-chain Chlorinated paraffins C10-13, Cl≥48 wt%			
8	Mirex			
9	PCN		Forbidden	
10	Hexavalent Chromium compounds			
11	Mercury and its compounds		Forbidden	
12	Asbestos		Forbidden	
13	Organic Tin compounds		Forbidden	
14	Azo compounds		Forbidden	
15		c parts of products (PCB is exempted)	<1000ppm	
16	Nickel in external case parts, w exposure	hich are likely to result in prolonged skin	<1000ppm	
17	Hexabromocyclododecane (HB	CDD)	<1000ppm	
18	Di-butyl Phthalate (DBP)		<1000ppm	
19	Benzyl butyl Phthalate (BBP)			
20	Di-ethylhexyl Phthalate (DEHP	P)	<1000ppm	
21	Di-isobutyl Phthalate (DIBP)		<1000ppm	

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