

Customer:	Rev. 01
Item: Brushless DC Blower	Page 1 of 5
Model: B1232H12B-BSR-E-CC-IM4	Issue Date:

SPECIFICATIONS FOR APPROVAL

Mechatronics is pleased to submit the following specifications for review. If these specifications are for a final approval, please sign, date, and return to:

FAX (425) 222-5155

TEL (425) 222-5900

Customer Approval	Authorized Signature

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BRUSHLESS DC FAN SPECIFICATIONS

1. SCOPE

This specification applies to model: **B1232H12B-BSR-E-CC-IM4**

2. STANDARD ENVIRONMENTAL CONDITIONS

Temperature 25°C and relative humidity 60%.

Operating temperature range and acceptable environment: 5 - 35°C and relative humidity 45 – 85%.

3. STRUCTURE AND FORM

3-1	Structure	Brushless DC fan motor
3-2	External	As per attached drawing
3-3	Housing	PBT UL94-VO
3-4	Impeller	PBT UL94-VO
3-5	Weight	320g
3-6	Bearing	2 Ball Bearing

4. RATING AND OPERATING CONDITIONS

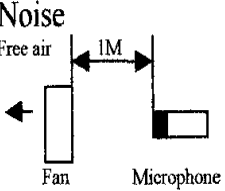
4-1	Rated voltage	DC 24
4-2	Rated current	DC 480 mA
4-3	Rated input	11.5 W
4-4	Operating voltage	14 – 26 VDC
4-5	Operating temperature	-10°C to +70°C
4-6	Storage temperature	-40°C to +70°C
4-7	Speed	3,000 RPM

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5. AIR FLOW, AIR PRESSURE CHARACTERISTICS

Item	Condition	Test Result
5-1 Air flow	Air pressure = 0	28 CFM (30 CFM Max)
5-2 Air pressure	Air flow = 0	0.68 InH2O (0.71 InH2O)
5-3 Air flow/Air pressure characteristics		See performance curves

6. PERFORMANCE

	Item	Condition	Test Result/ Standard
6-1	<p>Noise</p>  <p>Free air</p> <p>1M</p> <p>Fan</p> <p>Microphone</p>	As measured in a sound isolated room; background noise 20 dB or less; microphone distance 1 m from intake side of fan.	49 dBA (52 dBA Max)
6-2	Insulation resistance	Measured between frame and (+) lead wire or terminal when measured with insulation resistance meter with dc 250v applied.	Min. 10 Megohm
6-3	Dielectric voltage	AC 500 v applied for one minute.	Shall be free of abnormality.

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7. Special Test

7-1	Vibration resistance	5-30Hz, 0.04 peak-to-peak amplitude, 30-500Hz, 2g peak amplitude for 5 minutes to all three axes	Fan(s) meet performance standards
7-2	Shock resistance	60g, 11 millisecond (1/2 sine), twice to all three axes	Fan(s) meet performance standards
7-3	Durability	Expected mean endurance time until revolutions drop by 30% from the initial value - when run continuously within rated environmental conditions	+60,000 hours at 40°C; 45-85% relative humidity
7-4	Rotor Resistance	With rotor restricted and at rated voltage for 72 hours	Shall have no damage

8. Other

8-1	Terminal	(+) terminal – red lead wire (-) terminal – blue lead wire
8-2	Rotating direction	Marked on housing
8-3	Air flow direction	Marked on housing
8-4	Appearance	Shall be free of defects
8-5	Mounting hole	M4 Threaded inserts added
8-6	Lot marking	Date code stamped on label or frame
8-7	Environmental Protection	Conformal Coating on PCB and Motor Winding Assembly

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