



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!



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| Customer: | Rev. 01 |
| Item: Brushless DC Blower | Page 1 of 5 |
| Model: B1232H24B-BSR-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: **B1232H24B-BSR-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

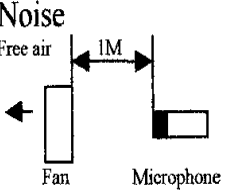
| | | |
|-----|-----------------------|----------------|
| 4-1 | Rated voltage | DC 24 |
| 4-2 | Rated current | DC 480 mA |
| 4-3 | Rated input | 11.52 W |
| 4-4 | Operating voltage | 15 – 26.5 VDC |
| 4-5 | Operating temperature | -10°C to +70°C |
| 4-6 | Storage temperature | -40°C to +70°C |
| 4-7 | Speed | 2,800 RPM |

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5. AIR FLOW, AIR PRESSURE CHARACTERISTICS

| Item | Condition | Test Result |
|-------------------------------------------|------------------|------------------------|
| 5-1 Air flow | Air pressure = 0 | 28 CFM |
| 5-2 Air pressure | Air flow = 0 | 0.68 in of water |
| 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 |
| 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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|----------------------------------|--------------------|
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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 | See drawing |
| 8-6 | Lot marking | Date code stamped on label or frame |
| 8-7 | Options | M4 nuts adjacent to exhaust |

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