1. SCOPE

This specification sheet specifles MITACHI DC BRUSHLESS FAN

Model: MD1203812HHB

2. MECHANICAL PART

2-a Dimension As per attached drawing No.

2-b Unit As per attached sheet No.

2-c Bearing type BALL BEARING

3. ELECTRICAL PART

3-a Rated Voltage 12 VDC

3-b Starting Voltage < 6 VDC

3-c Rated Current 0.70A (+ - 10%)

3-d Operating Voltage DC 6-14V

3-e Operating Temperature $-10^{\circ}\text{C} \sim 70^{\circ}\text{C}$

3-f Storage Temperature $-30^{\circ}\text{C} \sim 70^{\circ}\text{C}$

3-g Max . Air flow 132CFM

3-h Max . Air pressure 4.40 mm-H20

3-i Speed 3100 R.P.M(±10%)

3-j Noise level 52db

3-k Insulation Resistance Min 10M ohm

(When a voltage of AC 500V is impressed between terminnal (+) and frame)

3-l Withstand voltage No abnormality shall not be occur

(When a voltage of AC 500V is impressed 1 minute between terminal (+) and frame)

3-m Expected durability 50,000 hours

4. OTHER

4-a Restriction Burn Fan shall be free of damage when it is

subjected to a 2days locding the fan blade

at the rated voltage

4-b Dielectric Strength No damage can be occur at 500V DC 60

Sec or 600 V DC 2 sec between housing

And plus end of lead wire

4-c Air flow & rotation direction It is clearly marked on the flame

4-d Tachometer output FG signal

4-e Weight 300g

5. CHARACTERISTICS

5-a Rate current shall be measured after 5 minutes continue rotate

at rate voltage

5-b Rate speed shall be measured after 5 minutes continue rotate

at rate voltage

5-c Start voltage 6 V enable to start when the fan be switch on

5-d Free drop shock The fan no damage each one drop of three faces

5-e Vibration test fan shall be free of damage after avibration of 2mm

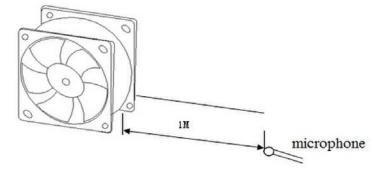
1000 cpm is applied to each direction of x..y.z. for

30 minutes

5-f Noise level measure In noise measuring the two method according JIS

B8330 appling to a blower and JIS C9603 applying to a ventilator . a microphone 1 meter apart from the

external surface



5-g Unit for staticpressure and air flow

Meter	Inch	Reduced Value
Static mmAq	IN Aq	1 IN Aq=25.4mmAq
		1CFM=0.028317m3/min
Preaaure(mmH2O)	CFM	=0.472 1/sec
Air flow m3/min 1/sec		=1.699 m3/min

5-h Fan motor life caculation:

T: Temp F: Weight(Kg)

N: Speed (R.P.M) L: Life (time)

C: Weight (Kg) normal

6. Product Drawing: AS attachments

