

DELTA ELECTRONICS, INC.
 252, SHANG YING ROAD, KUEI SAN
 TAOYUAN HSIEN 333, TAIWAN , R.O.C.

TEL : 886-(0)3-3591968
 FAX : 886-(0)3-3591991

SPECIFICATION FOR APPROVAL

Customer:

Description: DC FAN

Customer P/N: REV:

Delta Model NO.: AFB03512HA-A

Sample Rev: 01 Issue NO:

Sample Issue Date: JAN.03.2007 Quantity:

1. SCOPE:

THIS SPECIFICATION DEFINES THE ELECTRICAL AND MECHANICAL CHARACTERISTICS OF THE DC BRUSHLESS AXIAL FLOW FAN.

2. CHARACTERS:

ITEM	DESCRIPTION
RATED VOLTAGE	12 VDC
OPERATION VOLTAGE	9.5 - 13.8 VDC
INPUT CURRENT	0.09 (MAX. 0.14) A
INPUT POWER	1.08 (MAX. 1.68) W
SPEED (REF.)	7000±15%
MAX. AIR FLOW (AT ZERO STATIC PRESSURE)	0.156 (MIN. 0.133) M ³ /MIN. 5.50 (MIN. 4.69) CFM
MAX. AIR PRESSURE (AT ZERO AIR FLOW)	2.70 (MIN. 1.95) mm H ₂ O 0.106 (MIN. 0.077) Inch H ₂ O
ACOUSTICAL NOISE (AVG.)	22.0 (MAX. 28.0) dB A
INSULATION TYPE	UL: CLASS A

(continued)

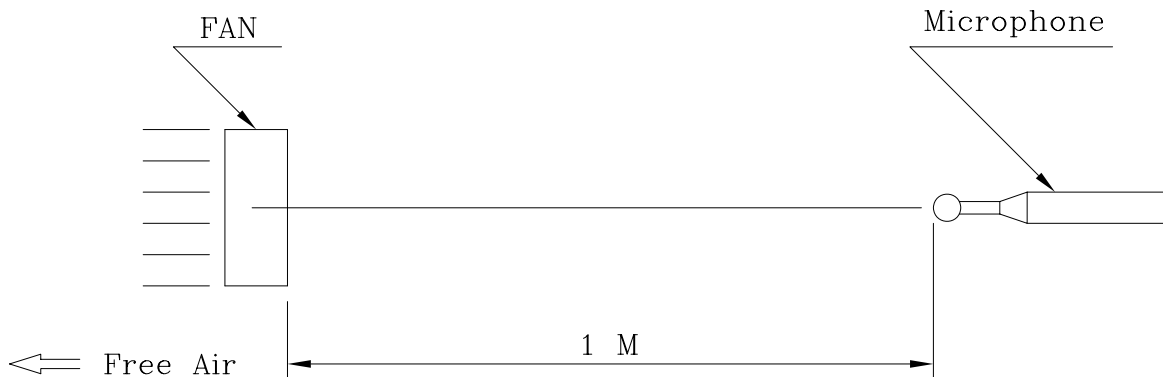
PART NO.:

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DIELECTRIC STRENGTH	5mA MAX. AT 500 VAC 60Hz ONE MINUTE, (BETWEEN FRAME AND (+) TERMINAL)
INSULATION STRENGTH	10MEG OHM MIN. AT 500 VDC (BETWEEN FRAME AND (+) TERMINAL)
LIFE EXPECTANCE	30,000 HOURS CONTINUOUS OPERATION AT 40°C , 65% RH.
ROTATION	CLOCKWISE VIEW FROM NAME PLATE SIDE
LEAD WIRE	UL 1061 AWG 26 +: RED WIRE -: BLACK WIRE

NOTES:

1. ALL READINGS ARE MEASURED AFTER SATBLE WARMING UP (10 MINUTES AROUND)
2. THE VALUES WRITTEN IN PARENS , () , ARE LIMITED SPEC.
3. ACOUSTICAL NOISE MEASURING CONDITION:



NOISE IS MEASURED AT RATED VOLTAGE IN FREE AIR IN ACOUSTICAL CHAMBER WITH B & K SOUND LEVEL METER.

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3. MECHANICAL:

- 3-1. DIMENSIONS ----- SEE ATTACHMENT
- 3-2. FRAME ----- PLASTIC UL:94V-0
- 3-3. FAN BLADE ----- PLASTIC UL:94V-0
- 3-4. BEARING SYSTEM ----- TWO BALL BEARINGS
- 3-5. WEIGHT ----- 10 GRAMS

4. ENVIRONMENTAL:

- 4-1. OPERATING TEMPERATURE ----- -10 TO +70 DEGREE C
- 4-2. STORAGE TEMPERATURE ----- -40 TO +75 DEGREE C

5. PROTECTION:

5-1. LOCKED ROTOR PROTECTION

IMPEDANCE OF MOTOR WINDING PROTECTS MOTOR FROM FLAME IN
96 HOURS OF LOCKED ROTOR CONDITION AT THE RATED VOLTAGE.

5-2. POLARITY PROTECTION

BE CAPABLE OF WITHSTANDING IF REVERSE CONNECTION FOR
POSITIVE AND NEGATIVE LEADS.

6. PRODUCTION LOCATION:

- 6-1. NO CONTAINING PBBs, PBBOs, CFCs, PBBEs, PBDPEs AND HCFCs.

7. PRODUCTION LOCATION:

- 7-1. PRODUCTS WILL PRODUCE IN CHINA OR THAILAND OR TAIWAN.

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8.BASIC RELIABILITY REQUIREMENT:

8-1. THERMAL LOW TEMPERATURE: -40°C
CYCLING HIGH TEMPERATURE: +80°C
 SOAK TIME: 30 MINUTES
 TRANSITION TIME < 5 MINUTES
 DUTY CYCLES: 5

8-2. HUMIDITY TEMPERATURE: +25°C ~ +65°C
EXPOSURE HUMIDITY: 90-98% RH @ +65°C
 FOR 4 HOURS/CYCLE
 POWER: NON-OPERATING
 TEST TIME: 168 HOURS

8-3. VIBRATION TEMPERATURE: +25°C
 ORIENTATION: X, Y, Z
 POWER: NON-OPERATING
 VIBRATION LEVEL: OVERALL $g_{RMS}=3.2$

FREQUENCY(Hz)	PSD(G^2/Hz)
10	0.040
20	0.100
40	0.100
800	0.002
1000	0.002

TEST TIME: 2 HOURS ON EACH ORIENTATION

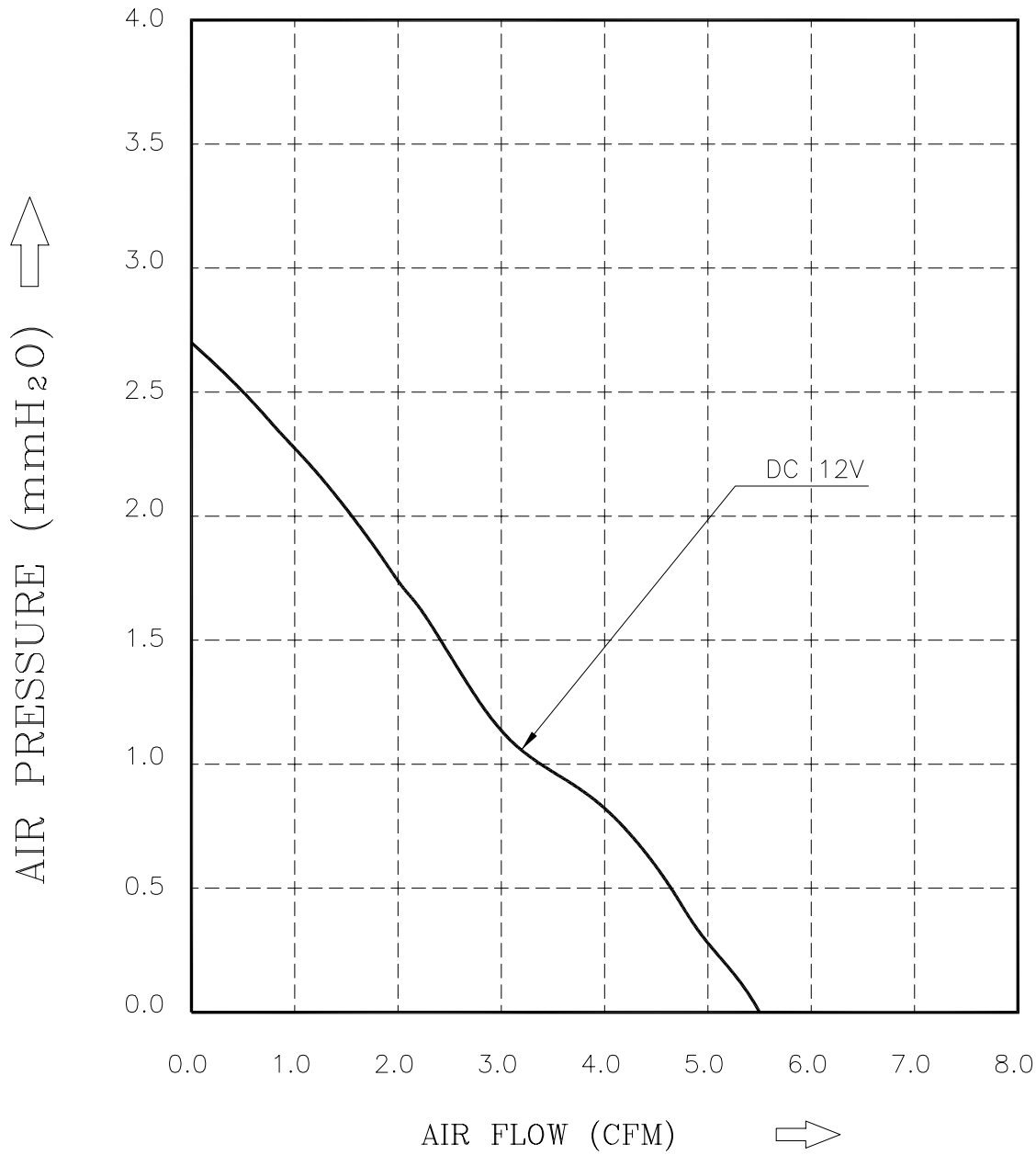
8-4. MECHANICAL TEMPERATURE: +20°C
SHOCK ORIENTATION: X, Y, Z
 POWER: NON-OPERATING
 ACCELERATION: 20 G MIN.
 PULSE: 11 ms HALF-SINE WAVE
 NUMBER OF SHOCKS: 5 SHOCKS
 FOR EACH DIRECTION

8-5. LIFE TEMPERATURE: MAX, OPERATING TEMPERATURE
 POWER: OPERATING
 DURATION: 1000 HOURS MIN.

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8.P & Q CURVE



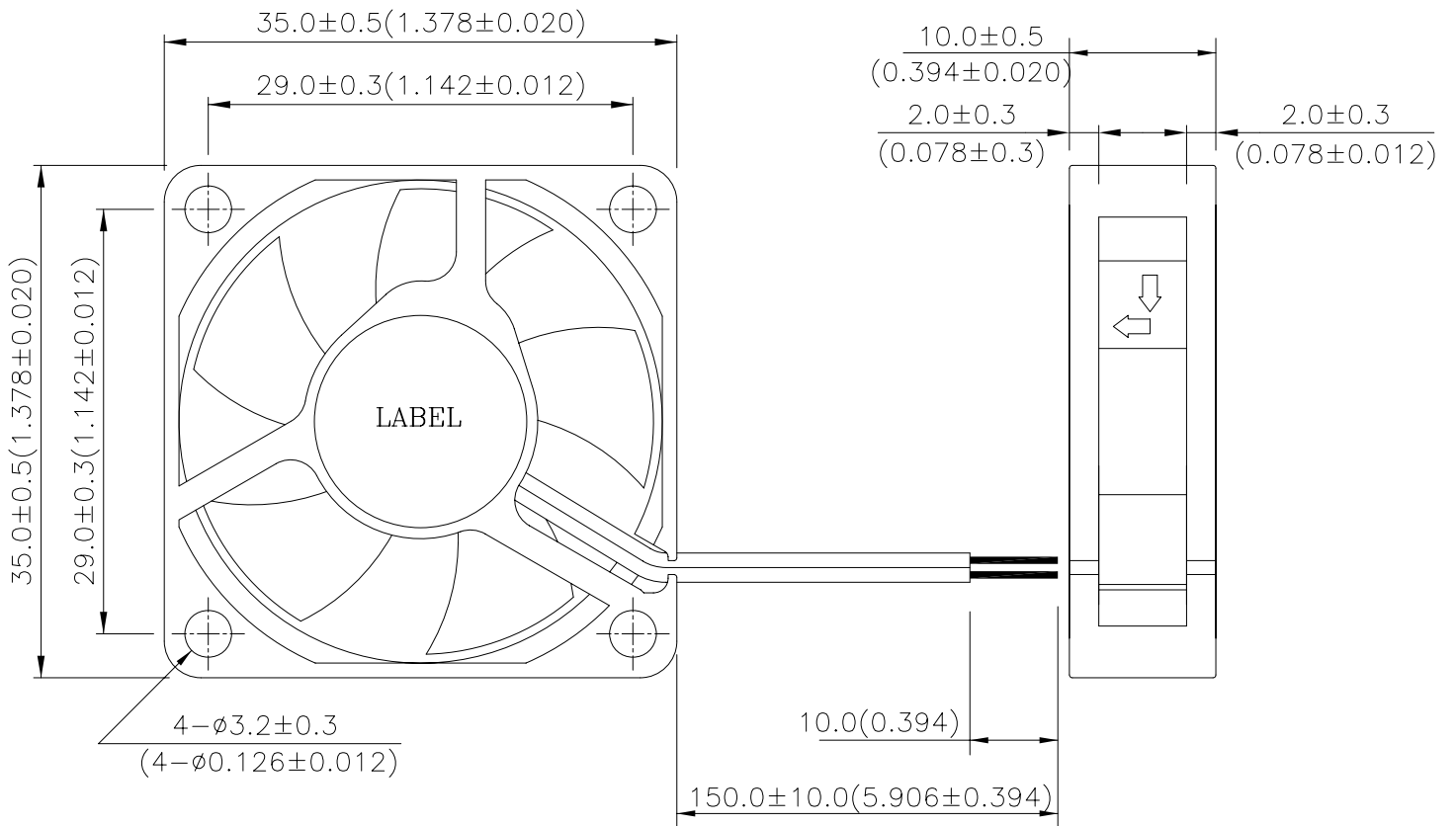
* TEST CONDITION: INPUT VOLTAGE ----- OPERATION VOLTAGE
 TEMPERATURE ----- ROOM TEMPERATURE
 HUMIDITY ----- 65%RH

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9.Attach: DIMENSIONS DRAWING

LABEL:



UL 1061 AWG 26 +: RED WIRE
-: BLACK WIRE

UNIT: mm(INCH)