SPECIFICATION FOR APPROVAL

客 戶	
CUSTOMER:	
客 戶 料	號
CUSTOMER PARTS	NO.:
品 名 DESCRIPTION:	DC BRUSHLESS FAN
機種 MODEL NO.:	BP802512L-02
檔案序號 FILE NO.:	D802512LB-A0

核示	研發	品保	版數
ISSUE	R&D	QA	REVISION

客 戶 承 認
CUSTOMER APPROVAL

BI-SONIC TECHNOLOGY CO., LTD

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PERFORMANCE SPECIFICATION

PRODUCT TITLE: DC BRUSHLESS FAN

MODEL NO: <u>BP802512L-02</u>

1 · SCOPE:

THIS SPECIFICATION DEFINES THE ELECTRICAL AND MECHANICAL CHARACTERISTICS OF THE DC BRUSHLESS AXIAL FLOW FAN. THE FAN MOTOR IS WITH TWO PHASES AND FOUR POLES.

2 · ELECTRICAL CHARACTERISTICS:

ALL MEASUREMENTS PERFORMED AT 20~30°C ROOM TEMPERATURE D& 50~70%R.H.UNLESS OTHERWISE SPECIFIED

ITEM	DESCRIPTION	UNIT	SYMBOL	SPEC.	CONDITION
1	RATED VOLTAGE	VOLTS	V	12	
2	OPERATION VOLTAGE	VOLTS	V	10.2~13.8	
3	INPUT CURRENT	AMP	A	0.12MAX	AT RATED VOLTAGE
4	INPUT POWER	WATTS	W	1.44MAX	AT RATED VOLTAGE
5	ROTATION SPEED	RPM	RPM	2200± 10%	AT RATED VOLTAGE FREE AIR
6	ACOUSTICAL NOISE (AVG)	dB(A)	dB(A)	25± 10%	DETAILS SEE ATTACHED PAGE.
7	MAX. AIR-FLOW	CFM	Q	27.8± 10%	TWO-CHAMBER METHODS DETAILS SEE ATTACHED PAGE.
8	MAX. AIR-PRESSURE	mmH2O	P	2.45± 10%	TWO-CHAMBER METHODS DETAILS SEE ATTACHED PAGE.
9	STARTING VOLTAGE	VOLTS	V	7	AT RATED VOLTAGE
10	INSULATION RESISTANCE	MEG. OHM	МΩ	$10 M\Omega$ MIN. AT 500V DC	BETWEEN FRAME AND (+) LEAD WIRE
11	DIELECTRIC STRENGTH	MILLI-AMP	mA	5mA MAX. AT 500V AC 60Hz. FOR 1 MINUTE	BETWEEN FRAME AND (+) LEAD WIRE

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ITEM	DESCRIPTION	SPEC.	
12	ROTATION	CW VIEW FROM NAME PLATE SIDE	
13	AIR-FLOW DIRECTION	AIR INTAKE OVER THE STRUTS	
14	INSULATION RANK	UL: CLASS A	
15	LIFE EXPECTANCY	50000 HOURS CONTINUOUS	\$

□ LIFE IS DEFINED AS THE TIME MOTOR SPEED DECREASED MORE THAN 30% COMPARED WITH INITIAL VALUE.

3 · MECHANICAL

- 3-1. DIMENSIONS----- SEE SECTION 8
- 3-2. FRAME ----- PLASTIC PBT UL: 94V-0 RATING + FIBRE GLASS.
- 3-3. FAN BLADE----- PLASTIC PBT UL: 94V-0 RATING + FIBRE GLASS.
- 3-4. BEARING SYSTEM ----- BALL BEARING
- 3-5 WEIGHT----- 100 GRAMS
- 3-6. LEAD WIRE------ 1007 AWG # 24
 - + POSITIVERED
 - NEGATIVE.....BLUE

4 · ENVIRONMENTAL:

- 4-1. OPERATING TEMPERATURE ----- -10 TO +70°C
- 4-2. STORAGE TEMPERATURE ----- -40 TO +75℃
- 4-3. DROP TEST

IN MINIMUM PACKAGING CONDITION FAN WITHSTANDS EACH ONE DROP OF THREE FACES FROM 30CM DISTANCE HEIGHT ONTO 10mm THICKNESS OF WOODEN BOARD.

4-4: VIBRATION TEST

FREQUENCY: 10-55Hz AMPLITUDE: 4MM

X, Y, Z DIRECTION EACH FOR 1 HR.

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4-5. SHOCK TEST

APPLY PEAK ACCELERATION 50g AND KEEP DURATION OF THE
PULSE FOR 11ms (HALF SINE WAVE) •

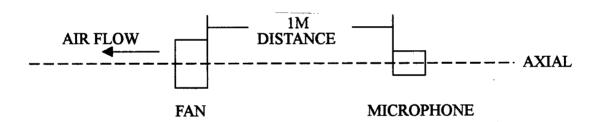
5 · PROTECTION:

- 5-1. POLARITY PROTECTION

 BUILT-IN ELECTRONIC CIRCUIT PROTECTS THE FAN AGAINST
 REVERSE CONNECTION OF POSITIVE AND REVERSE LEADS.
- 5-2. LOCKED ROTOR PROTECTION
 IMPEDANCE OF MOTOR COIL WINDING PROTECTS MOTOR FROM
 FLAMING IN THE CONDITION OF 72 Hrs LOCKED ROTOR AT RATED
 VOLTAGE.

6 · ACOUSTICAL NOISE:

6-1. MEASUREMENT SET-UP



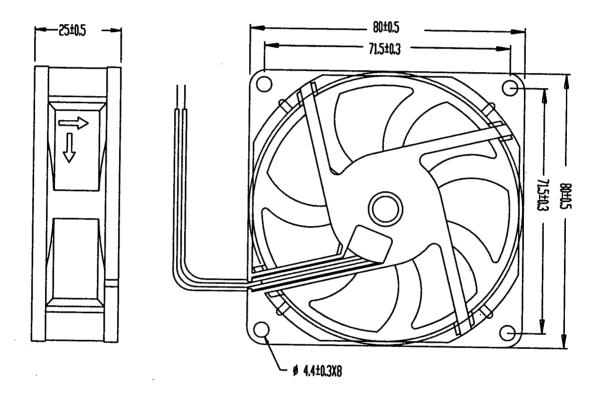
- 6-2. MEASUREMENT PERFORMED IN ANECHOIC TEST CHAMBER UNDER FREE AIR CONDITION ·
- 6-3. CHAMBER BACKGROUND NOISE 17dB MAX ·
- 6-4. READING TAKEN FROM SPECTRUN ANALYZER ·
- 6-5. NOISE DISTRIBUTION CURVE SEE ATTACHED PAGE ·
- 7 · STATICS PRESSURE VS AIR FLOW CURVE:

MEASURED PER TWO CHAMBER METHOD · DATA-CURVE SEE ATTACHED PAGE ·

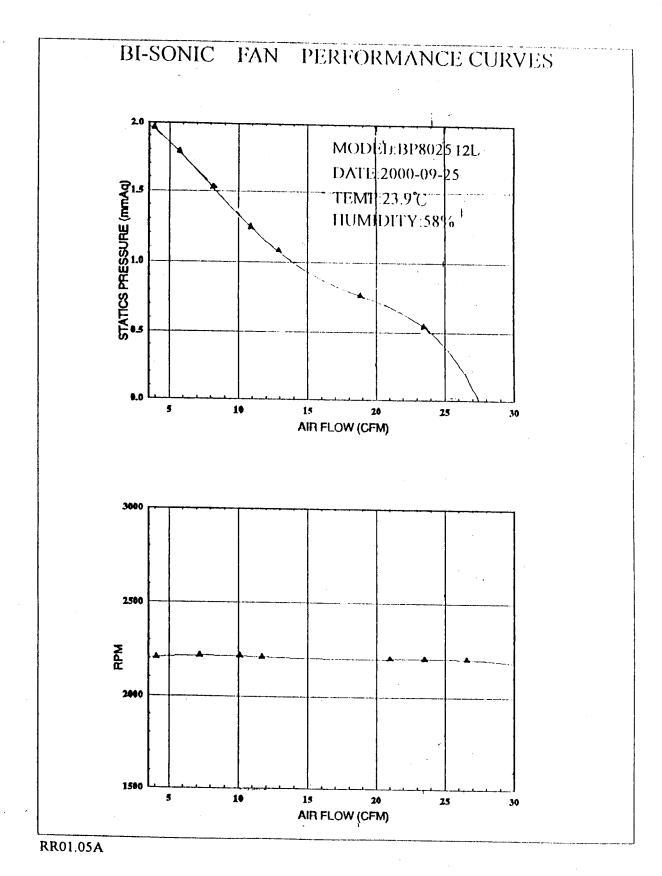
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8 · DIMENSIONS DRAWING:

UNIT:mm



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BI-SONIC FAN PERFORMANCE DATA SHEET

Customer:

Fan Model:8025-12L

Testing Method: Constant Voltage

Testing Voltage: DC 12 V, 0Hz

Barometric Pressure (cmHg):

Dry Bulb Temperature (C):23.9

Relative Humidity (%) 58

File Name:8025-12L

Test No: 802512L

System Setup:outlet Chamber

Testing Date:04-01-1998

Barometric Density (kg/m3):1.14

Testing Engineer: Hsieh Hsin Yuan

Remark:

No	CFM	mmAq	inAq	Α	RPM	Watt	
1	27.5	0.56	0.06	0.07	2275	0.84	
2	24.25	0.76	0.018	0.07	2275	0.84	
3	19.94	1.07	0.029	0.07	2276	0.84	
4	12.61	1.23	0.038	0.07	2291	0.84	
5	10.35	1.62	0.049	0.07	2297	0.84	
6	7.47	1.75	0.059	0.07	2295	0.84	
7	4.49	1.95	0.072	0.07	2287	0.84	
8	0.01	2.3	0.085	0.07	2273	0.84	

BI-SONIC TECHNOLOGY CORP NOISE TEST REPORT

測試機種:	8025-L			測試	目的: □	Evaluation	評估
工 令:						IPQC	
取 樣:	p	cs				QA	
]
	30.00						
章料代碼: 8025-L 測試頻率: 10KHz 測試感度: 0dB 瞬級 0/128 瞬份 0/128 瞬份 100點 丫軸上限: 30.00 丫軸		3		ency(Hz)		10.00k	
10.00 平均次數: 3次	OV. AL	5.000kHz	23.02771dB 1.43494 dB	MAXIM	1.500kHz 0.0000Hz	16.22742dB -289.418dB	
結果分析:							
(2) FFT Analy	nd Noise : 17dF vzer essure Level Mo	Re	porter: te : 2000-	09-25			

Mouser Electronics

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Bi-Sonic:

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