PROTECHNIC ELECTRIC CO., LTD.

SPECIFICATION FOR APPROVAL

MODEL: MGT6024HB-W25

Notice:

This offer is made according to your current inquiry. Unless otherwise revised, this specification will be final for all future production of orders from your company.

Kindly study in detail and send back to us the specification sheets with your confirmation signature in order to make an arrangement for production.

Approvaled by	Checked by	Authorized by
Aug.29.2011	Aug.29.2011	Aug.29.2011

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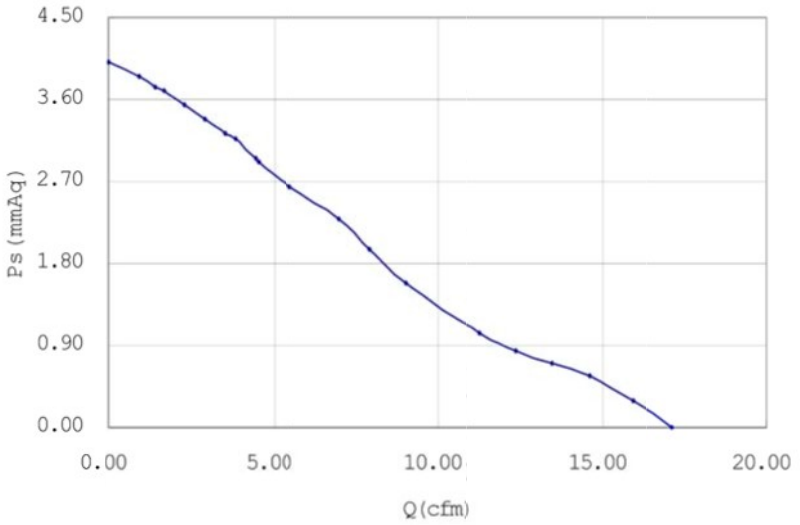
ITEMS	DESCRIPTION
Rated Voltage	D.C. 24V
Operating voltage	D.C. 12V~27.6V
Start up voltage	D.C. 12V (At 25°C Power ON/OFF)
Pulse Power operating	If duty cycle is 50% ,the frequency should ≧10Hz
Current	0.14A
Power	3.36W
Speed	4,200±10%rpm (At 25°C,To record speed after fan running normal, This time about 3~5minutes)
Air flow (at zero static pressure)	17.14CFM(0.485m^3/min) Min:15.43CFM (0.437m^3/min)
Air pressure (at zero air flow)	4.01mmH_2O (0.158inchH_2O) Min: 3.25mmH_2O (0.128inchH_2O)
Acoustical noise	37.1dB(A) Max:40.1dB(A)
Life expectancy	70,000hrs continuous at 40°C, 15~65% relative humidity
Insulation resistance	Min 10Meg Ohm between internal stator and lead wire (+) at 500VDC
Dielectric strength	5mA max at 600VAC 50Hz 1 second between frame and (+) terminal
Operating temperature and humidity	-10 to 70°C,5% to 90%RH
Storage temperature and humidity	-40 to 70°C,5% to 95%RH

PQ curve: (Rated Voltage or rated voltage at 100 %PWM if applied)



Noise Test: (ISO10302)

1.Measurement within anechoic chamber under free air condition

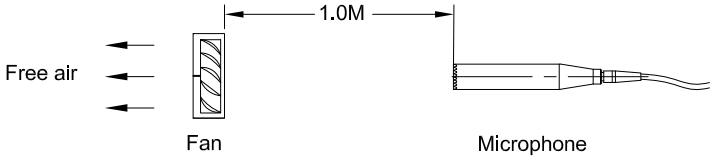
2.Microphone is placed at a distance of 1m on the axis of air intake side

3.Chamber background noise max 6.7dB(A)

4.Using microphone: G.R.A.S 1/2 inch measure system 40AE+26CA
or 1 inch low measure system 40HF

5.Test system: National Instrument NI-4474 data acquisition system

6.Acoustical noise at rated speed



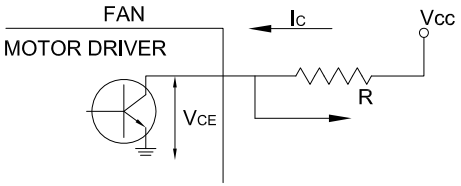
Output of rotary Signal:

1.Output method- open collector metheod

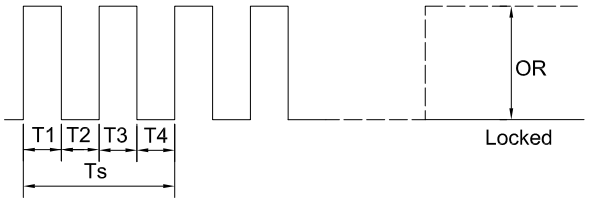
2. Circuit Specification:

2-1.Specification:

Vcc: =30V MAX
Vce(sat):=1.0V MAX
Ic=5mA MAX
R≧Vcc/Ic

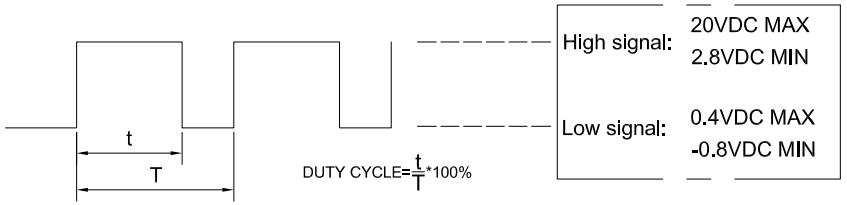


2-2. Frequency Generator Waveform:



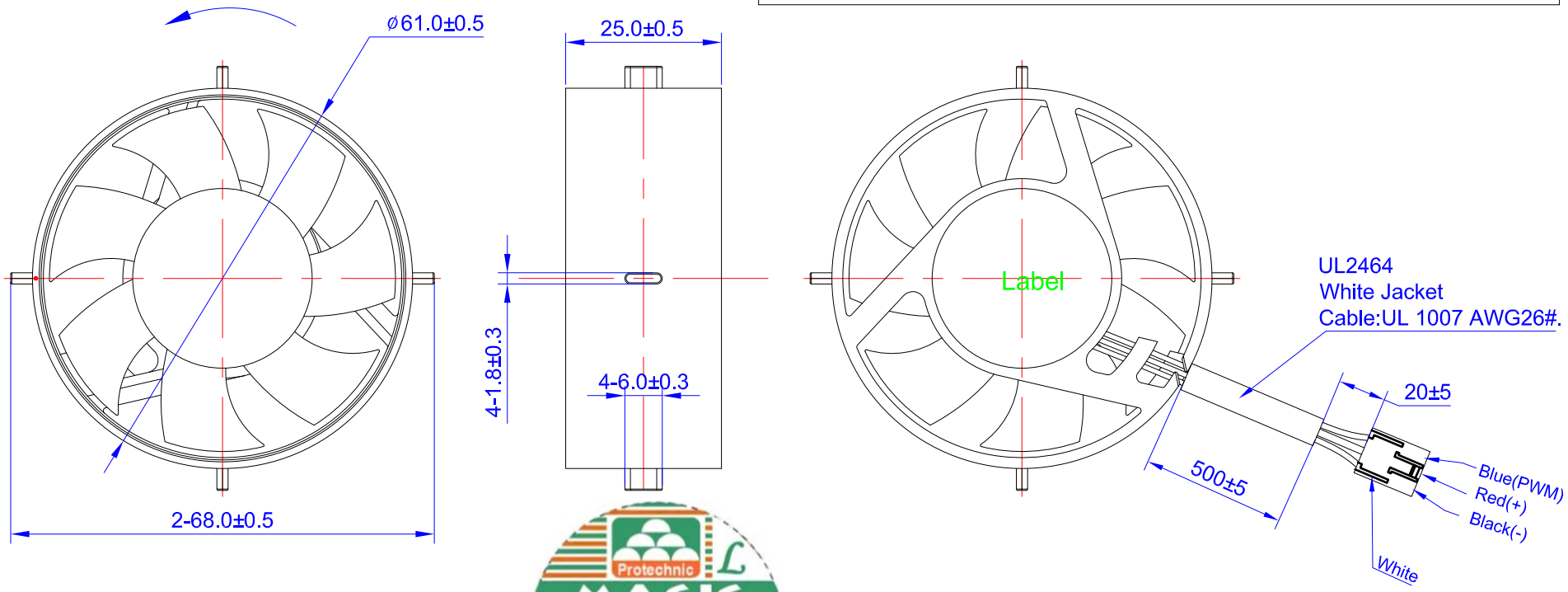
One Fan Rotation
N: Revolution per minute (rpm).
T1~T4 $\frac{1}{4}Ts=\frac{60}{4N}$ (sec).
Pulse width duty = T1÷(T1+T2) = 50±5%

PWM Signal：



1.The control signal frequency of the fan shall be able 1~25kHz.
2.The preferred operating point for the fan is 2~4kHZ.
3.At 100% duty cycle, the rotor will spin at maximum speed.
4.With control signal lead disconnected, the fan will spin at maximum speed.

ITEMS	DESCRIPTION		REMARKS
Frame	PBT(30%GF) UL: 94V-0		
Impeller	PBT(30%GF) UL: 94V-0		
Weight	59g		
Bearing	Dual ball bearings		
Housing	JS-2413-03		or equivalence
Terminal	JS-24131BS-2		or equivalence
Tube	N/A		
Label	ø27mm Material: PET		Protechnic
Speed Vs duty cycle (12V)	Duty cycle(%)	100%	0 %
	Speed (R.P.M)	4,200±10%	0
PWM test method: From 100% duty-cycle to 0% duty-cycle(At 25°C, rated voltage)			



DC BRUSHLESS FAN		Unit	mm

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