

Engineering Sample Specifications

CUSTOMER :

DESCRIPTION : MagLev Blower Fan

DIMENSIONS : 15X15X3 mm

M O D E L : UB3F3-100

P/N :

ENGINEER	Chen. kun hao 06/11/07	APPROVAL	yin 6/3
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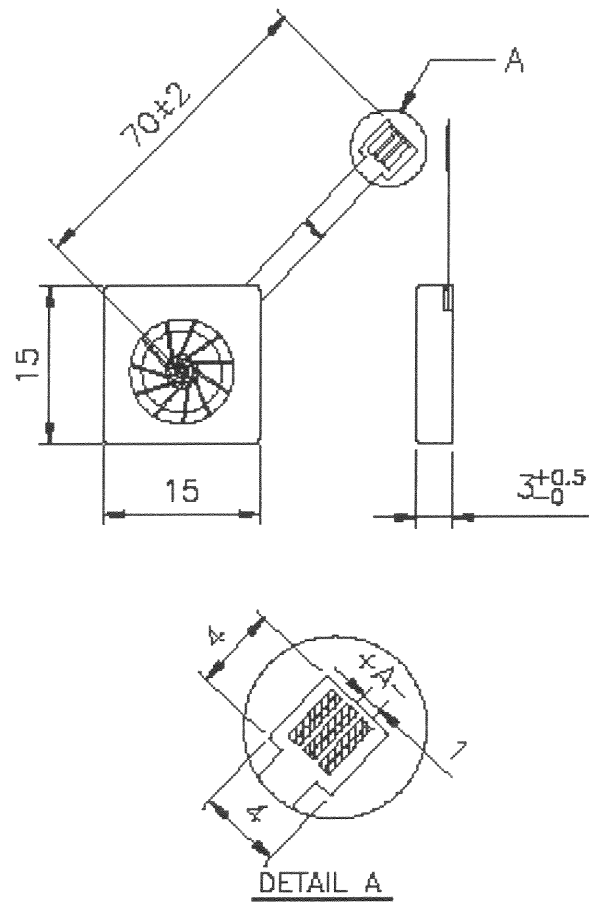
1. Construction

MOTOR DESIGN	DC brushless 4 pole motor design.
BEARING SYSTEM	Vapo bearing system
DIMENSIONS	See Page 4
MATERIALS OF FRAME	Thermoplastic LCP A130
MATERIALS OF FAN BLADE	Thermoplastic LCP A130
DIRECTION OF ROTATION	Counter-clockwise viewed from front of fan blade
Tolerance	±15% on rated power and current.
WEIGHT	0.69g

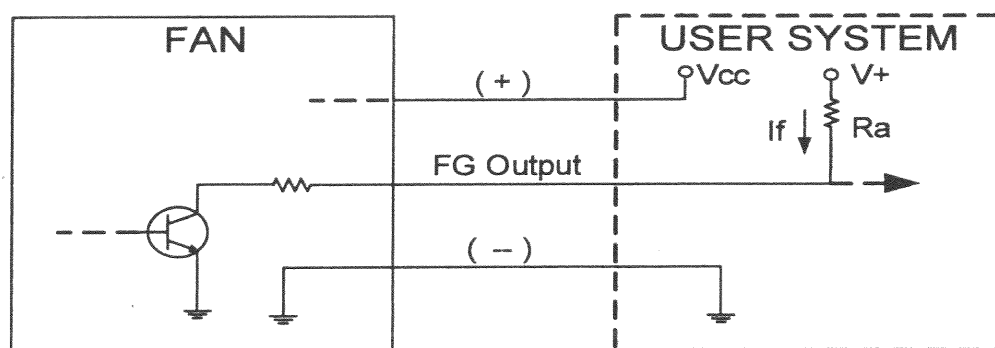
2. Rating

RATED VOLTAGE	3 VDC
STARTING VOLTAGE	2.0 VDC (25 deg. C POWER ON/OFF)
OPERATING VOLTAGE RANGE	2.0 ~ 3.5 VDC
RATED CURRENT	42 mA
RATED POWER CONSUMPTION	0.13 WATTS
AIR FLOW	3.10 l/min
STATIC PRESSURE	22.4 Pa
ACOUSTIC NOISE / 0.3M	27.9 dB(A)
RATED SPEED	8000 RPM ± 30%
OPERATING TEMPERATURE	-10 to + 70 deg. C
STORAGE TEMPERATURE	-40 to + 70 deg. C

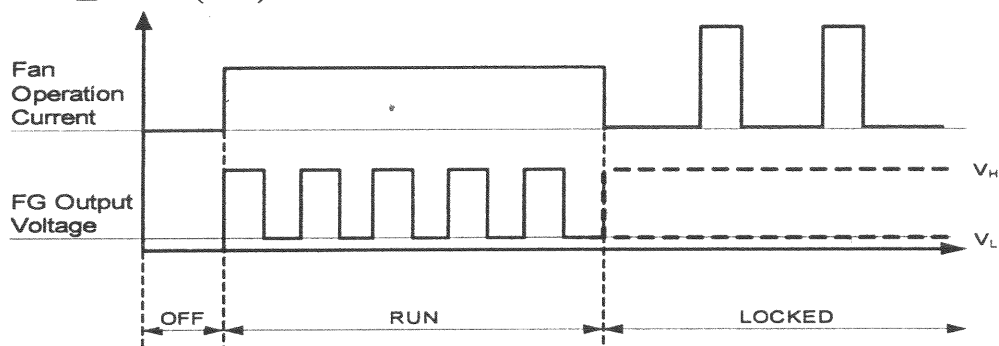
3. Dimensions



4. FG Signal



$$*R_a \geq V^+ / I_f(\text{max})$$



★Electrical Characteristics : (at $T_a = 25^\circ\text{C}$)

Parameter	Ratings			Unit
	min	typ.	max	
FG Supply Voltage(V^+)	2	--	6	Voltage
FG Output Current (I_f)	5	--	10	mA
FG Output (V_L)	--	0.25	0.4	Voltage
FG Output (V_H)	2	--	--	Voltage

5. Performance curve

