Krube

SPECIFICATION

MODEL K-DC17251-A48-92-68



	■ Engineering Samples	
Samples Requirement	☐ Pre-production Samples	
	☐ Production Sample	
	■Polarity Protection	
Motor Protection	■Auto Restart	
Connection Lead Type	Wire	
Bearing Type	■Ball Bearing	
Material Type ■PBT+30%FIBER+ A-Aluminumin Black		

1.Sample Specification

	Item Specification/Condition		n/Condition	
1	Part No.	K-DC17251-A48-92-68		
2	Outline Dimension	172X51mm		
3	Rated Voltage	DC: 48V		
4	Voltage Range	DC: 36V~73V		
5	Starting Voltage	Max:36DCV (on/off)		
6	Rated Current	3.16A±10%	25°C 60~80%RH	
7	Power Consumption	152 W±10%	25°C 60~80%RH	
8	Speed	9200RPM±10%	25℃ 60~80%RH	
9	Max. Air flow	546CFM±10%	25℃ 60~80%RH	
10	Max. Static Pressure	133.67mm-H2O	Rated Current	
11	Noise Level	75.5dB		
12	Weight	825g		
13	Life Expectancy	70000	Hours (at 25°C 65%R.H.)	
14	Waterproof	IP68	Vacuum coating	

2.Electrical Specification

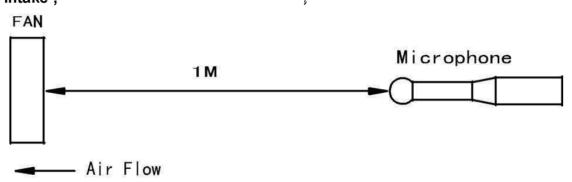
Item	Specification/Condition	
Dielectric Strength	500V/1mA/2s	
Insulation Resistance	tance 10M (Ambient temperature 25°C)	
Temperature Test of Run	△t=<70°C Rated Voltage	
Locked Rotor Protection	∆t=<130℃ Rated Voltage	
Pound resistance	Can wi thstand the shock from all three axis by 60g and two times per	
Vibration resistance	Can wi thstand the vilratiom from 5-30Hz,0.04g to 30-500Hz,2g peak	
Locked for at least0.2hrs at raetd voltage,the fans run normally after released.		
Reversla Voleage Test Test with reversal working voltage for 2minutes,all remain still,but fans run normally after corrected voltage.		



3.Acoustical Noise

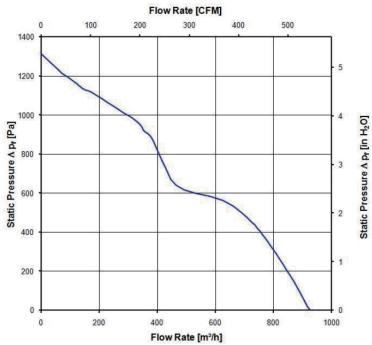
Testing Condition:

Fan is hanged in anechoic chamber, Noise is measured at rated voltage in anechoic chamber with microphone at a distance of one meter from the air intake;



4. Mechanical Characteristics

- 4.1 Performance Curve
- 4.1.1 The performance including air flow and air pressure measured in Double Chamber is measured according to AMCA210-85 standard.



5.Environmental Specification

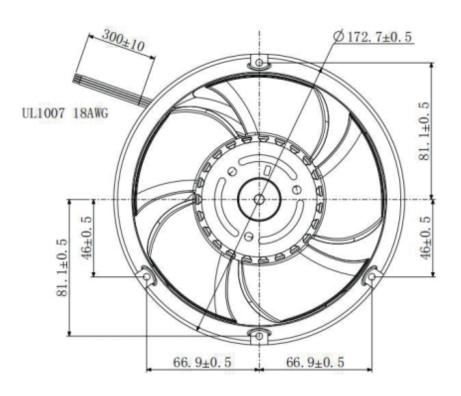
Item	Specification/Condition	
Operating Temp. Range	Temperature: -10°C ~70°C Humidity: 20%~85%RH	
Storage Temperature	Temperature: -40℃ ~80℃ Humidity: 20%~95%RH	

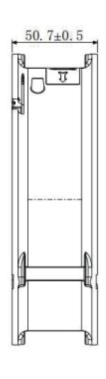


6.Main Materials/Parts Specification

NO.	MAJOR COMPONENTS	MATERIAL OR TYPE	GRADE	UL No
1	FAN HOUSING	A-Aluminumin Black		
2	FAN BLADE	PBT 70%+FIBER30%	94-V0	
3	INSULATOR FRAME	PBT 100%	94-V0	
4	SHAFT	STAINLESS STEEL		
5	BEARING	BALL		
6	PLASTIC MAGNET	STRONTIUM FERRITE		
7	ENAMELED WIRE	2 UEW		
8	SILICON STEEL STRIP	H 23		
9	P.C.B	Single-layer printed circuit		
10	HALL IC			
11	LEAD WIRES	1007 18#AWG L=300±10mm	94-V0	
12	TERMINAL	NO		
13	SINK	NO		
14	CASING	NO		
15	SPRING COIL	YES		

7.Outline Dimension

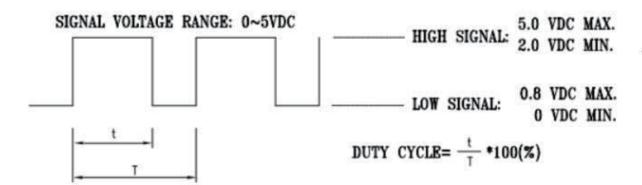






8. Functional description

8.1 PWM CONTROL SIGNAL:



- THE FREQUENCY FOR CONTROL SIGNAL OF THE FAN SHALL BE ABLE TO ACCEPT A 25KHZ.
- THE PREFERRED OPERATING POINT FOR THE FAN IS 25KHZ.
- AT 100% DUTY CYCLE, THE ROTOR WILL SPIN AT MAXIMUM SPEED.
- AT 0% DUTY CYCLE, THE ROTOR WILL SPIN AT STOP.
- WITH CONTROL SIGNAL LEAD DISCONNECTED, THE FAN WILL SPIN AT MAXIMUM SPEED.
- AT 25KHZ 30% DUTY CYCLE ,THE FAN WILL BE ABLE TO START FROM A DEAD STOP.
- SPEED VS PWM CONTROL SIGNAL:

(AT RATED VOLTAGE & PWM FREQUENCY=25KHZ & TEMPERATURE AT 25DEGREE C)

13. PWM CONTROL LEAD WIRE INPUT IMPEDANCE:

Frequency range: 300HZ~30KHZ

