規格承認書

SPECIFICATION FOR APPROVAL

客戶名稱：
(CUSTOMER) _____

客戶料號：
(PART NO) _____

品名規格：
(DESCRIPTION) **DFS402012L**

送樣日期：
(SENDING DATE) 2012-11-8

客户签章: CUSTOMER SIGNATURE	永林興電子(深圳)有限公司制作		
	审 核： REPORTED BY	确 认： CHECK BY	作 成： APPROVED BY
	熊卫光	叶小燕	张丽萍

敬請“客戶簽章”欄簽核後將零件承認書回傳永林興公司，以便後續作業，謝謝!

YLTC

Y L TECH(HK)CO.
永林興科技有限公司
YOUNG LIN TECH CO.,LTD.
致宣電子深圳有限公司
ZHI XUAN ELECTRONICS(SHENZHEN)CO.,LTD.
永林興電子（深圳）有限公司
YONG LIN XING ELECTRONICS(SHENZHEN)CO.,LTD.

ISO9001（2008）
ISO14001
CERTIFIED SUPPLIER
http://www.yltc.cn

SPECIFICATION FOR APPROVAL

TO:	SAMPLE ISSUE NO.:YL121117
MODEL: DFS402012L	SAMPLE ISSUE DATE:2012-11-8
PART NAME: DC FAN(RoHS)	SAMPLE Q' TY: 6PCS
液压轴承	VER.: 1

1. SCOPE:

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

2. CHARACTERS:

ITEM	DESCRIPTION
RATED VOLTAGE	12 VDC
OPERATION VOLTAGE	10.8~13.2VDC
STARTING VOLTAGE	9VDC(ON/OFF)
INPUT CURRENT	0.04±0.02 A
SPEED (10 MINUTE/ ROOM TEMPERATURE 25℃)	2500 RPM±15%
AIR FLOW (AT ZERO STATIC PRESSURE)	2.85CFM
AIR PRESSURE (AT ZERO AIRFLOW)	0.64mmH2O
ACOUSTICAL NOISE (AVG.)	18.40dB-A
SAFETY TYPE	UL, TUV, CE,

客户签章： CUSTOMER SIGNATURE	YONG LIN XING ELECTRONICS(SHENZHEN)CO.,LTD		
	APPROVED BY：	CHECKED BY：	PREPARED BY：
	熊卫光	叶小燕	张丽萍

(Continued)

YOUNG LIN TECH CO., LTD,

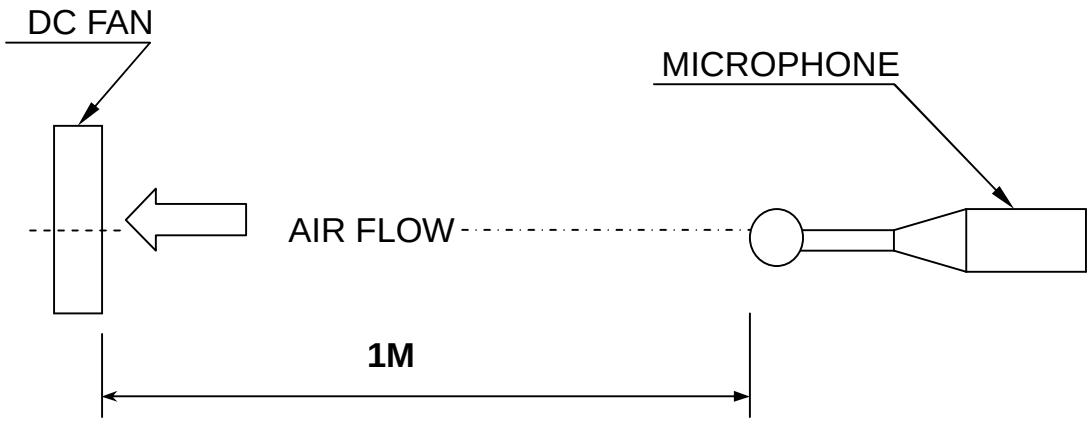
MODEL: DFS402012L

INSULATION STRENGTH	10 MEG OHM MIN.AT 500 VDC (BETWEEN FRAME AND (+) TERMINAL)
DIELECTRIC STRENGTH	5 mA MAX. AT 500 VAC 60 H_Z ONE MINUTE, (BETWEEN FRAME AND (+) TERMINAL)
LIFE EXPECTANCE	30.000 HOURS CONTINUOUS OPERATION AT 25℃ WITH 15~65 %RH.
ROTATION	WIDDERSHINS VIEW FROM FRAME PLATE SIDE
OVER CURRENT SHUT DOWN	INAPPLICABILITY
LEAD WIRE	UL1007–AWG #26 BLACK : (-) RED : (+) YELLOW(SPEED SENSOR)

NOTES: 1. ALL READINGS ARE MEASURED AFTER STABLY WARMING UP THROUGH 10 MINUTES.

2. THE VALUES WRITTEN IN PARENS, ARE LIMITED SPEC.

3. ACOUSTICAL NOISE MEASURING CONDITION:



NOISE IS MEASURED AT RATED VOLTAGE IN FREE AIR IN ANECHOIC CHAMBER WITH B & K SOUND LEVEL METER WITH MICROPHONE AT A DISTANCE OF ONE METER FROM THE FAN INTAKE

3. MECHANICAL:

3-1. DIMENSIONS ---------- SEE DIMENSIONS DRAWING
3-2. FRAME ---------- PLASTIC UL: 94V-0
3-3. IMPELLER ---------- PLASTIC UL: 94V-0
3-4. BEARING SYSTEM ---------- SLEEVE BEARING
3-5. WEIGHT ---------- 23.40GRAMS

4. ENVIRONMENTAL:

4-1. OPERATING TEMPERATURE ---------- -10 TO + 70 DEGREE C
4.2. STORAGE TEMPERATURE ---------- -40 TO + 75 DEGREE C
4-3. OPERATING HUMIDITY ---------- 5 TO 90 % RH
4-4. STORAGE HUMIDITY ---------- 5 TO 95% RH

5. PROTECTION:

5-1. DROP TEST
IN MINIMUM PACKAGING CONDITION FAN WITHSTANDS EACH ONE DROP OF THREE FACES FROM 30 CM DISTANCE HEIGHT ONTO 10 MM THICKNESS OF WOODEN BOARD.

5-2. LOCKED ROTOR PROTECTION
IMPEDANCE OF MOTOR WINDING PROTECTS MOTOR FROM FIRE IN 15 MINUTE OF LOCKED ROTOR CONDITION AT THE RATED VOLTAGE.

6. RE OZONE DEPLETING SUBSTANCES;
6-1.RESTRICTION SUBSTANCES OF SAMPLE ARE AS FOLLOWS:
Pb(PPM)＜1000 Cd(PPM)＜100 Hg(PPM)＜1000
Cr6+ (PPM)＜1000 PBBs (PPM)＜1000 PBDEs (PPM)＜1000

IMPORTANT NOTES & GENERAL INSTRUCTIONS

1. Any item which is needed to add into specification shall be determined on customer's prior written request. If no information given , fan will be delivered based on our standard judgment.

2. Customer shall confirm the matching and reliability of fan on actual set or unit application.

   This include confirmation on set or unit life, electrical noise, mechanical noise, Vibration static electricity ,electric power noise ,drift ,electric resonance between motor and control circuit ,mechanical resonance between motor and chassis, irregular movement of set due to motor noise ,irregular movement of set in strong electromagnetic field ,damaged by lightning surge earthing method etc

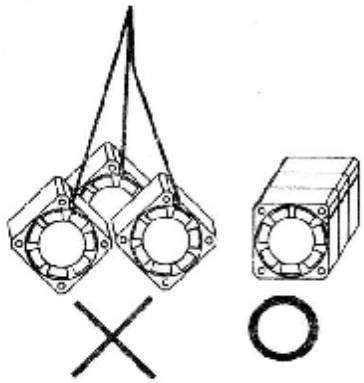
3. In order to improve the performance within the scope of specification, parts or material changes are subject to prior notice to customer.

4. Any revisions on the specification shall be done based on mutual discussion and agreement.

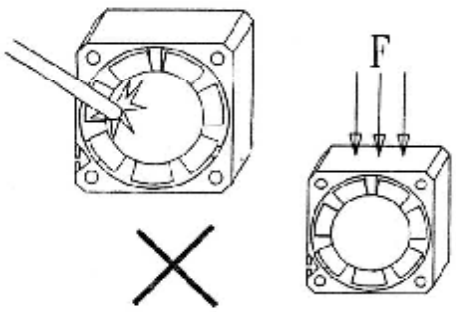
5. When any trouble occurs, both parties shall discuss on this specification to solve the matters. In this case, our guarantee is only limited to fan

風扇使用注意事項

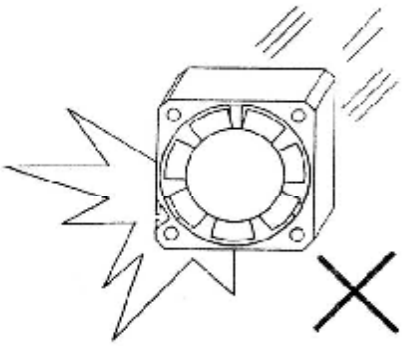
☆ HOW TO HANDLE FAN PROPERLY?



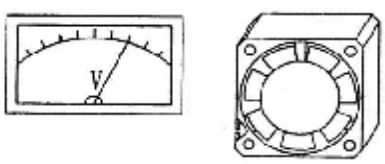
1. 取用風扇，輕取外框兩側，不可拉扯導線.
1. Hold the fan by frame side. Do not hold lead wires to support the fan.



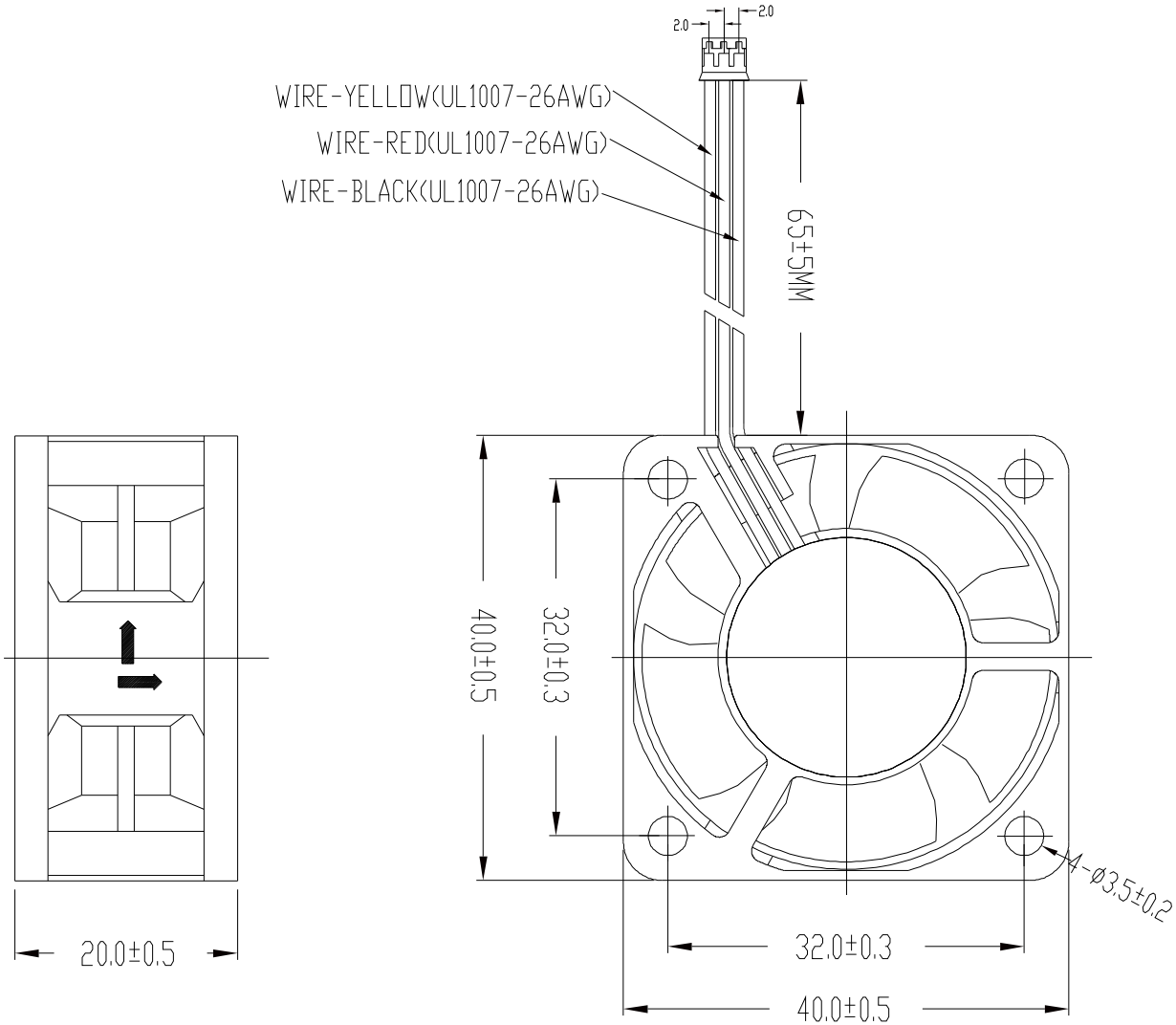
2. 取用風扇，不可碰觸或擠壓扇葉與外框.
2. No touching or pressing on the impeller hub. Avoid crushing the frame side.



3. 風扇嚴禁掉落地面，或敲擊外框任何面.
3. Do not drop on the ground. Do not pound on the frame side.

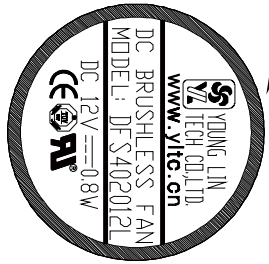


4. 風扇電源需依照規格電壓安裝使用.
4. Connect leads priperly and applty voltage according to specification.



框面标

叶面标



NO.	DESCRIPTION	SPECIFICATION	Q'TY	VENDOR	PART NO.	REMARKS

客户签章:

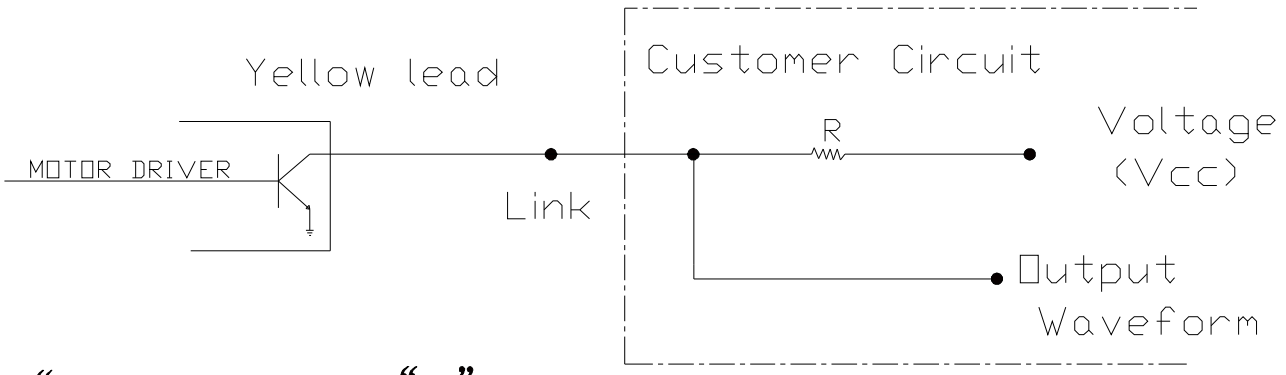
CUSTOMER SIGNATURE

DESCRIPTION	DC FAN		
MODEL NO.	DFS402012L	SCALE	N.T.S
DRAW: 张丽萍	CHKD: 叶小燕	APPD: 熊卫光	

YONG LIN XING ELECTRONICS(SHENZHEN) CO., LTD

Signal Circuit System

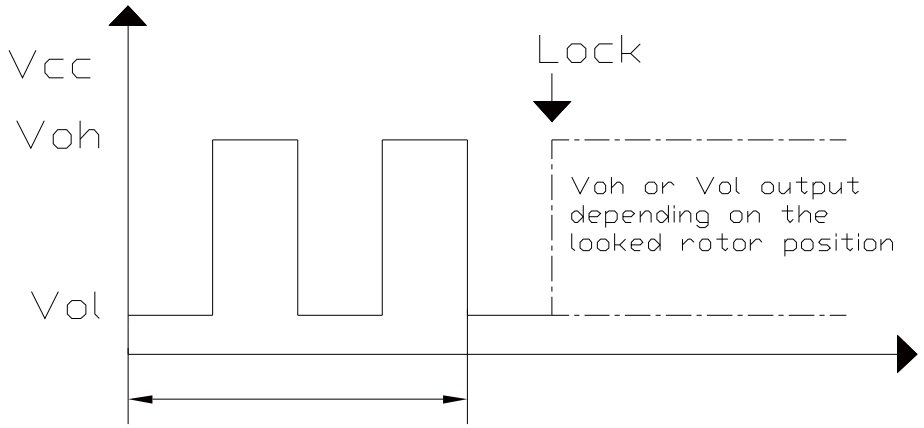
A: 3rd Pulse Wre



"please select "R"
to make"Link"Less than 10mA"

Vcc:30V Max
Link:10mA Max

Output Waveform



Saturo tlan Votage----V_{OL}=1.0V Max
Release Votage ----V_{OH}=30V Max

DTE	REVISIONS

DO NOT SCALE DRAWING	MODEL NO: SEE SHART	PART NO: SEE SHART	
UNLESS OTHERWISE SPECIFIED	PART NAME: Signal Circuit System	FINISH:	
ALL DIMEDSIDMS ARE IN MM	MATERIAL:	DATE:	
TOLERANCES LINEAR .× ±0.1 .××±0.05 ANGULAR ×. ±0.5 ×.×±0.1	SCALE: 1:1	QTY/U: 1	
	DRAW: 程九生	CHKD: 吴明峰	APPD: 王富平
	ZHI XUAN ELECTRONICS CO.,LTD	DWG.NO:	REV: 0

Model DF(A)4020 Series

1. Rotor - Same as DF(A)4007 series, FIG. 2, Item 1, except measures 12.7 mm high.

2. Rubber Ferrite Magnet - Same as DF(A)4007 series, FIG. 2, Item 2, except measures 20.1 mm OD, 12.8 mm high, 1.5 mm thick.

3. Shaft - Same as DF(A)4007 series, FIG. 2, Item 3, except measures 1.9 mm OD, 16.8 mm high.

4. Stator (Core) - Same as DF(A)4007 series, FIG. 2, Item 4, except 16.8 mm OD, 7.4 mm ID, 8.2 mm high.

5. Bobbin - Consists of two parts. Material same as Impeller, Fig. 1 Item 1, made of minimum 0.1 mm thick. Both parts secured by press-fit to Stator, Item 4 above.

6. Coils - Enameled copper wire wound over Bobbin, Item 5. Coil ends mechanically secured and soldered to Printed Wiring Board, Item 7.

7. Printed Wiring Board - R/C (ZPMV2); see Construction Details, Printed Wiring Boards. Secured to center hub of Fan Frame, Item 2 by physical fit. Secured to posts integral to Bobbin, Item 5, by snap-fit.

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Aufbauübersicht für Elektro-und Medizingeräte
Data form for electrical and medical equipment

Taiwan

Zertifikat Nr./ Certificate No. B 04 12 34564 010 Seite / Page 4 von / of 4

Prüfbericht Nr./ Test Report No. 612104130501

Im Gerät eingebaute Einzelteile: (Schalter, Temperaturregler, Heizkörper, Stecker, Fassungen, Leitungen, kondensatoren, Motoren und sonstige Wicklungen z. B. Transformatoren, Magnetspulen)
Built-in component: (switch, temperature regulator, heating element, plug, socket, wiring, capacitor, motors and other components with windings e. g. transformers, coils)

Bauteil/ Kind of Component	**Hersteller/** Manufacturer	**Angaben über Typ, Stromstäke, Leistung, Transformatorspezifikationsnummer, Isolationsklasse/**Information about type, current, power, transformer specification number, insulating class		**Püfzeichen von** Test mark from **(VDE, BSI, UL etc.)**	
object/part No.	manufacturer/ trademark	type/model	technical data	Standard	mark(s) of conformity[1])
Models	**Rating**	**Models**	**Rating**	**Difference**	
DFx4007yz		**DFx6010yz**		**Model Example:**	
				DF S 40 07 12 H	
				A B C D E F	
DFB400712H	12Vdc, 1.6W	DFC601012H	12Vdc, 2.8W		
DFS400712H	12Vdc, 1.6W	DFB601012H	12Vdc, 2.8W	**A** – DC Fan	
DFB400712M	12Vdc, 1.3W	DFS601012H	12Vdc, 2.8W		
DFS400712M	12Vdc, 1.3W	DFC601012M	12Vdc, 2.0W	**B** – Bearing Type	
DFB400705H	5Vdc, 1.3W	DFB601012M	12Vdc, 2.0W	S – Sleeve Bearing	
DFS400705H	5Vdc, 1.3W	DFS601012M	12Vdc, 2.0W	B – Ball Bearing	
DFB400705M	5Vdc, 1.2W	DFC601012L	12Vdc, 1.6W	C – One Ball One Sleeve	
DFS400705M	5Vdc, 1.2W	DFB601012L	12Vdc, 1.6W		
		DFS601012L	12Vdc, 1.6W	**C** – Frame Size	
		DFC601012D	12Vdc, 4.5W	40 – 40 mm by 40 mm	
DFx4020 yz		DFB601012D	12Vdc, 4.5W	45 – 45 mm by 45 mm	
		DFS601012D	12Vdc, 4.5W	60 – 60 mm by 60 mm	
DFB402012L	12Vdc, 0.8W				
DFS402012L	12Vdc, 0.8W			**D** – Frame Thickness	
DFB402012M	12Vdc, 1.3W			07 – 7mm	
DFS402012M	12Vdc, 1.3W			10 – 10 mm	
DFB402012H	12Vdc, 1.6W			20 – 20 mm	
DFS402012H	12Vdc, 1.6W				
DFB402005L	5Vdc, 0.6W			**E** – Input voltage	
DFS402005L	5Vdc, 0.6W			12 – 12 Vdc	
DFB402005M	5Vdc, 0.8W			5 – 5 Vdc	
DFS402005M	5Vdc, 0.8W				
DFB402005H	5Vdc, 1.3W			**F** – Speed	
DFS402005H	5Vdc, 1.3W			L – Low speed	
				M – Medium speed	
DFx4507yz		**DFx6020yz**		H – High speed	
				D – Ultra high speed	
DFB450712H	12Vdc, 1.6W	DFC602012H	12Vdc, 2.0W		
DFS450712H	12Vdc, 1.6W	DFB602012H	12Vdc, 2.0W		
DFB450712M	12Vdc, 1.3W	DFS602012H	12Vdc, 2.0W		
DFS450712M	12Vdc, 1.3W	DFC602012M	12Vdc, 1.4W		
DFB450705H	5Vdc, 1.2W	DFB602012M	12Vdc, 1.4W		
DFS450705H	5Vdc, 1.2W	DFS602012M	12Vdc, 1.4W		
DFB450705M	5Vdc, 1.1W	DFC602012L	12Vdc, 1.0W		
DFS450705M	5Vdc, 1.1W	DFB602012L	12Vdc, 1.0W		
		DFS602012L	12Vdc, 1.0W		

SGS ASIA LTD. TÜV TAIWAN JUN 06 2008

Ort / place Taipei, Taiwan **Datum / date** June 04, 2008

Stempel und Unterschrift des Auftraggebers / Seal and signature of applicant

Wenmin Liu

			Tel:	Fax:
DEUTSCHLAND	Zertifizierstelle	Ridlerstraße 31, D-80339 München	0049/89/50084-180	0049/89/50084-230
	Frankfurt	Mergenthalerallee 27, D-65760 Eschborn	0049/6196/9601-0	0049/6196/9601-99
	Hannover	Masurenweg 1 -3, D-30163 Hannover	0049/511/96359-0	0049/511/96359-39
	München	Ridlerstraße 31, D-80339 München	0049/89/50084-0	0049/89/50084-222
	Strasskirchen, MIKES	Ohmstraße 2-4, D-94342 Strasskirchen	0049/9424/1031	0049/9424/8533

2 EUT DESCRIPTION

Product	DC Fans
Trade Name	YLTC
Model	DFS4010; DFB4010; DFC4010; DFS4020; DFB4020; DFS4510; DFB4510; DFS5010; DFB5010; DFC5010; DFS6010; DFB6010; DFC6010; DFS6015; DFB6015; DFC6015; DFS6025; DFB6025; DFC6025; DFS7010; DFC7010; DFS7015; DFB7015; DFC7015; DFS8010; DFC8010; DFS8015; DFB8015; DFC8015; DFS8020; DFB8020; DFC8020; DFS8025; DFB8025; DFC8025; DFS9225; DFB9225; DFC9225; DFS1225; DFB1225; DFS13525
Housing Type	Plastic
EUT Power Rating	DC 12V
DC Power Cable Type	Unshielded, 0.2m

Note:

1. *Difference between of forty-one model numbers (list on this report) are list as below:*

Model	*Speed*	*Model*	*Speed*
DFS4010; DFB4010; DFC4010	*H (6000RPM) M (5400RPM) L (4200RPM)*	*DFS7015; DFB7015; DFC7015*	*H (5000RPM) M (4200RPM) L (3600RPM)*
DFS4020; DFB4020	*H (7500RPM) M (6200RPM) L (5000RPM)*	*DFS8010; DFC8010*	*H (3500RPM) M (3000RPM) L (2500RPM)*
DFS4510; DFB4510	*H (6000RPM) M (5000RPM) L (4000RPM)*	*DFS8015; DFB8015; DFC8015*	*H (3500RPM) M (2500RPM) L (2000RPM)*
DFS5010; DFB5010; DFC5010	*H (5300RPM) M (4500RPM) L (3500RPM)*	*DFS8020; DFB8020; DFC8020*	*H (3500RPM) M (3000RPM) L (2500RPM)*
DFS6010; DFB6010; DFC6010	*H (5000RPM) M (4200RPM) L (3500RPM)*	*DFS8025; DFB8025; DFC8025*	*H (3500RPM) M (3000RPM) L (2500RPM)*
DFS6015; DFB6015; DFC6015	*H (5000RPM) M (4300RPM) L (3600RPM)*	*DFS9225; DFB9225; DFC9225*	*H (2800RPM) M (2500RPM) L (2000RPM)*
DFS6025; DFB6025; DFC6025	*H (4000RPM) M (3000RPM) L (2500RPM)*	*DFS1225, DFB1225*	*H (2200RPM) M (2000RPM) L (1700RPM)*
DFS7010; DFC7010	*H (3500RPM) M (3000RPM) L (2500RPM)*	*DFS13525*	*H (1800RPM) M (1500RPM) L (1200RPM)*

2. *Client consigns only one sample (model number is DFS1225) to test. Therefore, testing Lab. just guarantees the units, which have been tested*

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