

Keen Ocean Industrial Ltd.

侨洋实业有限公司

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9 Hoi Shing Road, Tsuen Wan, N.T., Hong Kong.

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有线电视大楼 34 楼 5 室

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Fax(传真): (852) 3102-9710

He Yuan Sky Wealth Electronic and Plastic Co., Ltd.

河源天裕电子塑胶有限公司

FACTORY : The South Side of Keqi Road, The East Side of
Xingong Road of Heyuan, Hi-Tech Development Zone,
Heyuan City, Guangdong Province, China.

工厂地址: 中国广东省河源市高新技术开发区兴工大道东面
科七路南边

Tel(电话): 86-762-2203101

Fax(传真): 86-762-2203100

SPECIFICATION FOR APPROVAL

承 认 书

CUSTOMER (客户) : 杭州三坛医疗科技有限公司
PRODUCT (产品) : TOROIDAL TRANSFORMER(环形变压器)
DESCRIPTION (描述) : I/P: AC 220V/50Hz
OUR MODEL (产品型号) : T8BFN-85419 (TTO-85419-00L)
CUSTOMER MODEL (客户型号) : 1000VA

Keen Ocean Engineering Department (侨洋实业有限公司工程部)

Sky Wealth Engineering Department (河源天裕电子塑胶有限公司工程部)

Date of Issue (发行日期): 02-APR-2022(2022年04月02日)

Drawn by(制作):

Checked by (审核):

Approved by(承认):

XYH

刘祖超

ZhangSL

APR.02,2022
(2022年04月02日)

APR.02,2022
(2022年04月02日)

APR.02,2022
(2022年04月02日)

Please kindly sign back for approval (客户签字) .

Accepted by Customer (客户承认人):

Signed and chopped (签名和盖章)

Date(日期)

Keen Ocean Industrial Ltd. (侨洋实业有限公司)

He Yuan Sky Wealth Electronic and Plastic Co. Ltd. (河源天裕电子塑胶有限公司)

电气性能 (ELECTRICAL PROPERTIES)				
产品型号(OUR MODEL) : T8BFN-85419 (TTO-85419-00L) 客户型号(CUST. MODEL) : 1000VA 标准(STANDARD) : UL 60601-1 class B insulation system(130Deg.C) E213684 产品重量 (WEIGHT) : T.B.D				
初级 (PRIMARY)	编号 (NO.)	抽头编号 (TAP.NO.)	输入电压及频率 (VOLTAGE)	空载电流 (EXCITING CURRENT OPEN CIRCUIT)
	P	1-2	AC 220V 50Hz	90mA Max
次级 (SECONDARY)	编号 (NO.)	抽头编号 (TAP.NO.)	空载电压 (OPEN CIRCUIT VOLTAGE +/- 5%)	负载电压 (LOADING VOLTAGE +/- 5%)
	S	4-5	AC 230.5V	AC 220V 4.55A
额定连续输出功率 (RATED CONTINUOUS OUTPUT POWER)				1000VA(AC)
绝缘电阻 (INSULATION RESISTANCE)	初级对次级(PRIMARY - SECONDARY)			100M OHM @ DC 500V
电气强度 (DIELECTRIC STRENGTH)	初级对次级(PRIMARY - SECONDARY)			AC 4000V 5mA FOR 1 MINUTE
	初级对屏蔽 (PRIMARY - SCN)			AC 2500V 5mA FOR 1 MINUTE
	次级对屏蔽 (SECONDARY-SCN)			AC 2500V 5mA FOR 1 MINUTE
温升 (TEMPERATURE RISE)	额定连续负载 (RATED CONTINUOUS LOADING) : 1000VA(AC)			85Deg.Cmax AT Ta = 25Deg.C (输入Input: AC 220V/50Hz)

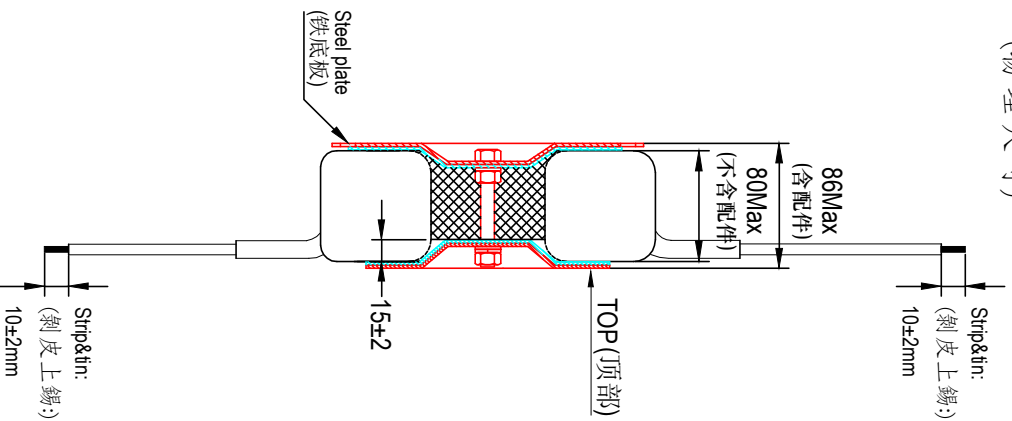
保护装置 (PROTECTIVE DEVICE)	
初级(PRIMARY)	A4-10A-F 130Deg.C THERMAL CUTOFF (10A/250V)
次级(SECONDARY)	*****

出线 (LEAD OUT)			
线号 LEAD NO.	引线型号 TYPE	长度 LENGTH	剥皮和上锡 STRIP&TIN
1	UL 1015 AWG#18 蓝色(BLUE)	300+/-10 mm	10+/-2 mm
2	UL 1015 AWG#18 棕色(BROWN)	300+/-10 mm	10+/-2 mm
3	UL 1015 AWG#18 黄绿(YELLOW/GREEN)	300+/-10 mm	10+/-2 mm
4	UL 1015 AWG#18 黑色(BLACK)	300+/-10 mm	10+/-2 mm
5	UL 1015 AWG#18 红色(RED)	300+/-10 mm	10+/-2 mm

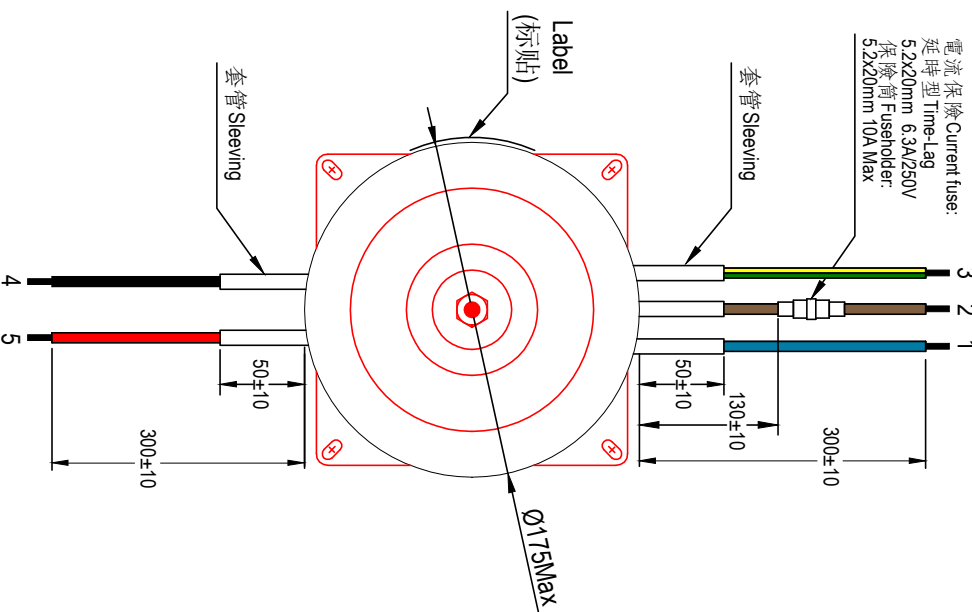
配件 (MOUNTING)			
铁介(STEEL DISHED WASHER)	I.D.:8.5±0.5 mm O.D.:120±2.0 mm THK.:1.5±0.3 mm	1 个(PC)	黑色 (BLACK)
胶介(NEOPRENE WASHER)1	I.D.:9.0±0.5 mm O.D.:148±2.0 mm THK.:1.5±0.3 mm	1 个(PC)	黑色 (BLACK)
胶介(NEOPRENE WASHER)2	I.D.:35±0.5 mm O.D.:150±2.0 mm THK.:1.5±0.3 mm	1 个(PC)	黑色 (BLACK)
平介(FLAT WASHER)	M8	1 个(PC)	黑色 (BLACK)
弹介(SPRING WASHER)	M8	1 个(PC)	黑色 (BLACK)
螺丝(SCREW)	M8x80mm	1 个(PC)	黑色 (BLACK)
螺母(NUT)	M8	1 个(PC)	黑色 (BLACK)

说明(REMARKS)

(物理尺寸)



(顶视图)

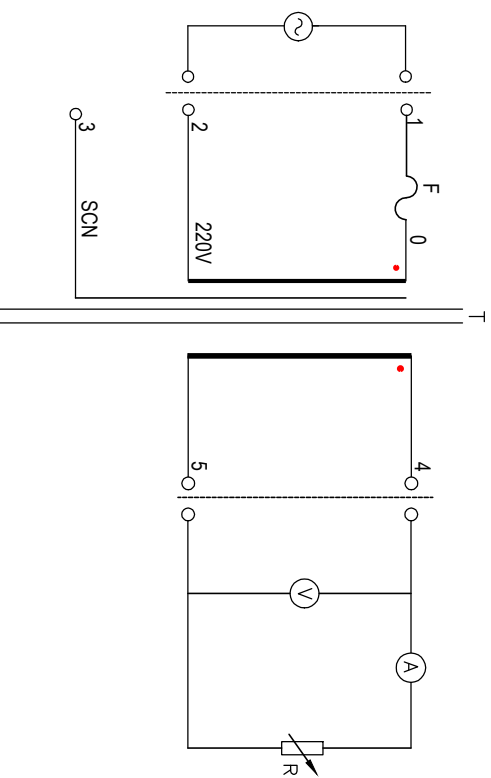


ISSUE (序号)	DESCRIPTION (描述)	REV. BY (编制)	APPROVED. BY (认可)	DATE (日期)
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
ISSUE (序号)	DESCRIPTION (描述)	REV. BY (编制)	APPROVED BY (认可)	DATE (日期)

LABELS: (标签)

T - TRANSFORMER	(变压器)
A - AMMETER	(电流表)
V - VOLTMETER	(电压表)



(输入AC 220V/50Hz, 输出参考规格书)

3d ANGLE PROJECTION		Keen Ocean Industrial Ltd. 侨洋实业有限公司 He Yuan Sky Wealth Electronic and Plastic Co., Ltd. 河源天裕电子塑胶有限公司	材质(MATERIAL):	SIGNATURE (署名)	DATE (日期)
			加工(FINISH):	DRAWN(编制): XYH	APR.02.2022
DO NOT SCALE			比例(SCALE: 不适合 N.T.S)	CHECKED(审核): LZC	APR.02.2022
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETRES			页码(PAGE: 3 / 6)	APPROVED(认可): ZSH	APR.02.2022
TOLERANCE: LINEAR ANGULAR:	± 1 mm ± 0.5°	MODEL NAME: TOROIDAL TRANSFORMER (环形变压器)	CUST. MODEL: (客户型号) 1000VA	MODEL NO.: (型号) TB8FN-85419 (TT-O-85419-00L)	

Keen Ocean Industrial Ltd. (侨洋实业有限公司)
He Yuan Sky Wealth Electronic and Plastic Co. Ltd. (河源天裕电子塑胶有限公司)

产品型号(OUR MODEL): T8BFN-85419 (TTO-85419-00L)

客户型号(CUST. MODEL): 1000VA

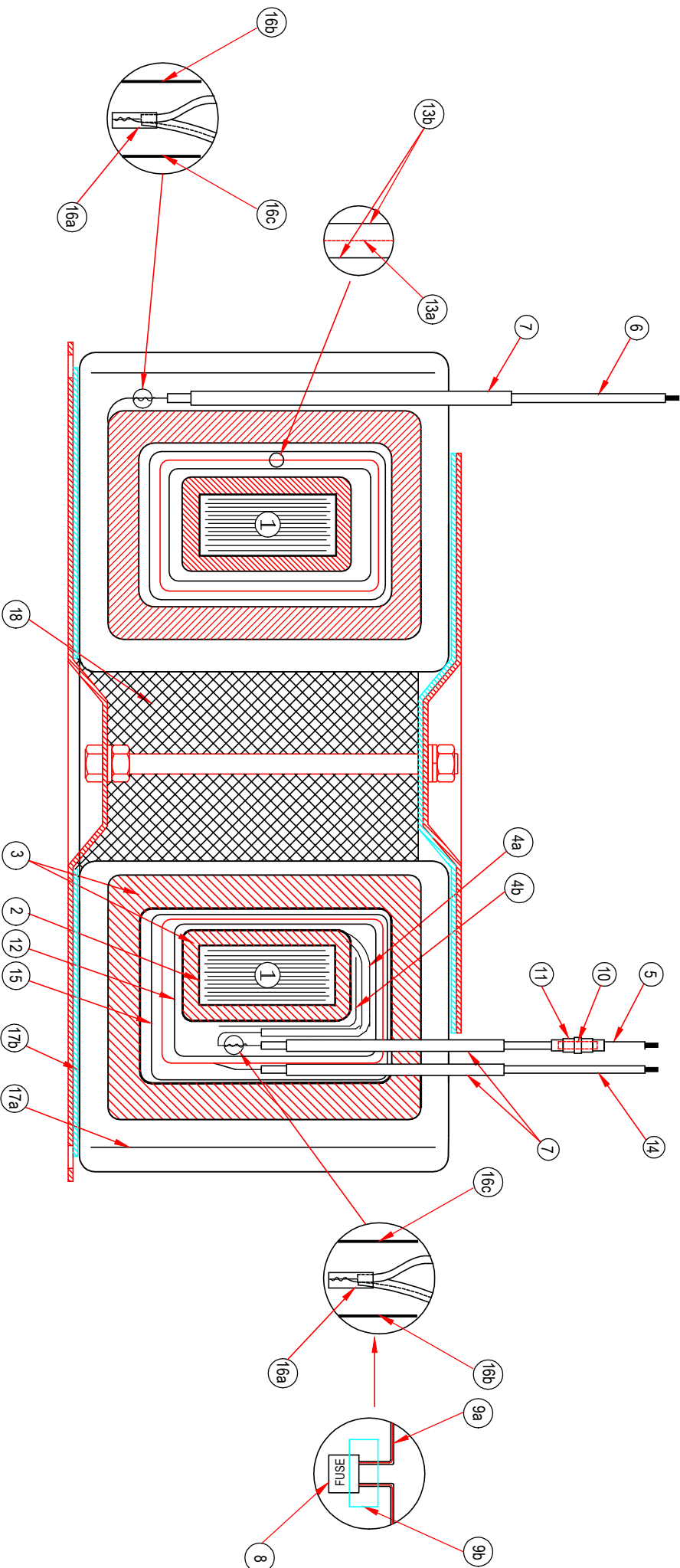
物料表(MATERIAL LIST)				
	物料(MATERIAL)	描述(DESCRIPTION)	UL标准(STANDARD)	制造商/供应商(MANUFACTURERS / SUPPLIERS)
1	铁心(Core)	硅钢片(Silicon Steel) R尺寸(Size): HxLxDxOD=50x75x155mm 厚度(Thickness): 0.20~0.35mm		新日铁(Nippon Steel) 或同等的(or equivalent)
2	初级绕组与铁心之间的绝缘 (Insulation between Core and Primary Winding)	聚酯薄膜(Polyethylene Terephthalate Film) 型号(Type): EL 或(OR) WC MYLAR 厚度(Thickness): 0.125mm 67%重叠 1层 总厚度: 0.375mm (67% overlap 1 layer total thickness): 0.375mm)	UL:E93687	杜邦(Dupont Teijin Films U S L P) 或同等的(or equivalent)
3	初次级电磁金属线 Magnet Wire (Primary & Secondary)	漆包铜线Polyester-Imide Enameled Wire(EIAI/U,HAU/U) MW-35C Thermal Endurance Class H (180Deg.C) PEWH/U 或 漆包铜线Polyester-imide overcoat Polyamide-imide (EIAI/U,HAU/U) Thermal Endurance Class C (200 Deg.C) MW35 或 漆包铜线Polyester Enameled Wire (PEW) MW 5-C Thermal Endurance Class F (155Deg.C) 或(OR) 漆包铜线Polyester-imide Wire (EIW) MW 30-C Thermal Endurance Class H (180Deg.C) 或(OR) 漆包铜线Polyester-imide overcoat Polyamide-imide (XEAIW/200) Thermal Endurance Class C (200 Deg.C) MW35-C Primary(初级): 2xdia1.00mm 376 圈(turns) Secondary(次级): 2xdia0.95mm 394 圈(turns)	UL:E201757 UL:E201757 UL:E234896 UL:E234896 UL:E258125	深圳太平洋Pacific Electric Wire&Cable(shenzhen)Co.,Ltd. 或同等的(or equivalent) 深圳太平洋(Pacific-Thai Electric Wire & Cable Co.,Ltd.) 或同等的(or equivalent) 台一铜业TAI-I Copper (GuangZhou) Co Ltd 或同等的(or equivalent) 台一铜业TAI-I Copper (GuangZhou) Co Ltd 或同等的(or equivalent) 河源天裕(He Yuan Sky Wealth Electronic And Plastic Co Ltd.) 或同等的(or equivalent)
4	交叉绝缘(初级绕组头线和尾线) Crossover Insulation (start and end)	a).PVC套管 (PVC TUBE 2P300) 300V 105Deg.C 或(OR) 套质纤维管 (Silicone Resin 500) 155Deg.C 600V 或(OR) 套质纤维管Silicone Coated Fiberglass 2R-SG 600V 155Deg.C OR 套质纤维管 (Silicone fiberglass Tube) SGS-25/40 2500/4000V 200Deg.C b).聚酯胶纸1P802 Polyester tape(used for attachment) 厚度 (Thickness) : 0.05mm 3层 (3 layers)	UL:E176865 UL:E53690 UL:E176865 UL:E233804 UL:E126174	彼利奥集团有限公司(P.LEO & CO(B C) Ltd.) 或同等的(or equivalent) VARFLEX CORP 或同等的(or equivalent) 彼利奥集团有限公司(P.LEO & CO(B C) Ltd.) 或同等的(or equivalent) 深圳华创威ShenZhen Wahchangwei Industrial Co Ltd 或同等的(or equivalent) 彼利奥集团有限公司(P.LEO & CO(B C) Ltd.) 或同等的(or equivalent)
5	初级引线 (Primary leads)	UL-1015 AWG #18 VW-1; 600V 105Deg.C	UL:E189674	深圳东聚Shenzhen Dong Ju Wire & Cable Co.,Ltd. 或同等的(or equivalent)
6	次级引线 (Secondary leads)	UL-1015 AWG #18 VW-1; 600V 105Deg.C	UL:E189674	深圳东聚Shenzhen Dong Ju Wire & Cable Co.,Ltd. 或同等的(or equivalent)
7	所有引线保护 (Protection of all leads)	PVC套管 (PVC TUBE 2P300) 300V 105Deg.C 或(OR) 套质纤维管 (Silicone Resin 500) 155Deg.C 600V 或(OR) 套质纤维管Silicone Coated Fiberglass 2R-SG 600V 155Deg.C OR 套质纤维管 (Silicone fiberglass Tube) SGS-25/40 2500/4000V 200Deg.C	UL:E176865 UL:E53690 UL:E176865 UL:E233804	彼利奥集团有限公司(P.LEO & CO(B C) Ltd.) 或同等的(or equivalent) VARFLEX CORP 或同等的(or equivalent) 彼利奥集团有限公司(P.LEO & CO(B C) Ltd.) 或同等的(or equivalent) 深圳华创威ShenZhen Wahchangwei Industrial Co Ltd 或同等的(or equivalent)
8	初级保险丝 (Primary thermal cutoff)	型号 (Type) : A4-10A-F 130 Deg.C (250V/10A)	UL:E140847	雅宝电子Aupo Electronics Inc. 或同等的(or equivalent)
9	初级热熔断器绝缘 (Insulation of primary thermal cutoff)	a).PVC套管 (PVC TUBE 2P300) 300V 105Deg.C 或(OR) 套质纤维管 (Silicone Resin 500) 155Deg.C 600V 或(OR) 套质纤维管Silicone Coated Fiberglass 2R-SG 600V 155Deg.C OR 套质纤维管 (Silicone fiberglass Tube) SGS-25/40 2500/4000V 200Deg.C b).聚酯胶纸1P802 Polyester tape(used for attachment) 厚度 (Thickness) : 0.05mm 3层 (3 layers)	UL:E176865 UL:E53690 UL:E176865 UL:E233804 UL:E126174	彼利奥集团有限公司(P.LEO & CO(B C) Ltd.) 或同等的(or equivalent) VARFLEX CORP 或同等的(or equivalent) 彼利奥集团有限公司(P.LEO & CO(B C) Ltd.) 或同等的(or equivalent) 深圳华创威ShenZhen Wahchangwei Industrial Co Ltd 或同等的(or equivalent) 彼利奥集团有限公司(P.LEO & CO(B C) Ltd.) 或同等的(or equivalent)
10	初级电流保险 Primary current fuse	型号(Type): T6.3A L 6.3A/250V 5x20mm 延时型Time lag	UL:E221465	深圳良膳Shenzhen Lanson Electronics Co Ltd 或同等的(or equivalent)
11	电流保险丝盒 Fuseholder	保险盒材料: PA66 101	UL:E41938	杜邦 E I Dupont De Nemours & Co Inc 或同等的(or equivalent)
12	初级绕组与屏蔽间绝缘 (Insulation between Primary winding and Screen Shielding)	聚酯薄膜Polyethylene Terephthalate (PET) Film 型号(Type): EL 或(OR) WC 厚度(Thickness): 0.075mm 50%重叠 3层 总厚度: 0.45mm (50% overlap 3 layers total thickness: 0.45mm)	UL:E93687	杜邦(Dupont Teijin Films U S L P) 或同等的(or equivalent)
13	屏蔽与它自己的绝缘 (Screen Shielding and its own insulation)	a).铜箔Copper Foil 厚度(Thickness): 0.05mm 1层(1 layer) b).聚酯胶纸1P802 Polyester tape 厚度(Thickness): 0.05mm 1层 (1 layer)	UL:E126174	河源飞兴达(Heyuan Feixingda) 或同等的(or equivalent) 彼利奥集团有限公司(P.LEO & CO(B C) Ltd.) 或同等的(or equivalent)
14	屏蔽引线 (Lead of Screen Shielding)	UL-1015 AWG #18 VW-1; 600V 105Deg.C	UL:E189674	深圳东聚Shenzhen Dong Ju Wire & Cable Co.,Ltd. 或同等的(or equivalent)
15	屏蔽与次级绕组间绝缘 (Insulation between Screen Shielding and Secondary winding)	聚酯薄膜Polyethylene Terephthalate (PET) Film 型号(Type): EL 或(OR) WC 厚度(Thickness): 0.075mm 50%重叠 3层 总厚度: 0.45mm (50% overlap 3 layers total thickness: 0.45mm)	UL:E93687	杜邦(Dupont Teijin Films U S L P) 或同等的(or equivalent)
16	所有引线连接绝缘 (Insulation of all Leads Connections)	a).PVC套管 (PVC TUBE 2P300) 300V 105Deg.C 或(OR) 套质纤维管 (Silicone Resin 500) 155Deg.C 600V 或(OR) 套质纤维管Silicone Coated Fiberglass 2R-SG 600V 155Deg.C OR 套质纤维管 (Silicone fiberglass Tube) SGS-25/40 2500/4000V 200Deg.C b).聚酯胶纸1P802 Polyester tape 厚度(Thickness): 0.05mm 3层 (3 layers) c). 聚酯薄膜Polyethylene Terephthalate (PET) Film 型号(Type): MYLAR S 或(OR) MO41 厚度(Thickness): 0.25mm	UL:E176865 UL:E53690 UL:E176865 UL:E233804 UL:E126174 UL:E93687	彼利奥集团有限公司(P.LEO & CO(B C) Ltd.) 或同等的(or equivalent) VARFLEX CORP 或同等的(or equivalent) 彼利奥集团有限公司(P.LEO & CO(B C) Ltd.) 或同等的(or equivalent) 深圳华创威ShenZhen Wahchangwei Industrial Co Ltd 或同等的(or equivalent) 彼利奥集团有限公司(P.LEO & CO(B C) Ltd.) 或同等的(or equivalent) 杜邦(Dupont Teijin Films U S L P) 或同等的(or equivalent)
17	外层绝缘(Outer Insulation)	a).聚酯胶纸1P802 Polyester tape 厚度(Thickness): 0.05mm 1圈 (1 turn) b).聚酯薄膜Polyethylene Terephthalate (PET) Film 型号(Type): EL OR WC MYLAR 厚度(Thickness): 0.05mm 50%重叠 2层 总厚度: 0.20mm (50% overlap 2 layers total thickness: 0.20mm)	UL:E126174 UL:E93687	彼利奥集团有限公司(P.LEO & CO(B C) Ltd.) 或同等的(or equivalent) 杜邦(Dupont Teijin Films U S L P) 或同等的(or equivalent)
18	环氧树脂(Epoxy)	环氧树脂9002G A(RESIN) 固化剂9002G B(HARDENER) 或者(OR) 环氧树脂3300 A(RESIN) 固化剂3300B(HARDENER)	UL:E222812 UL:E218090	广州惠利 Wells Electronic Material(GUANGZHOU)Co Ltd 或同等的(or equivalent) 东莞力多DongGuan Eatto Electronic Material Co.,Ltd 或同等的(or equivalent)

说明Remark: 所有物料都符合RoHS要求 All the materials meet the requirements of RoHS.



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CONSTRUCTION SKETCH

(构造图)



REVISIONS (修正)			
ISSUE (序号)	DESCRIPTION (描述)	REV BY (编制)	APPROVED BY (认可)
		DATE	

3rd ANGLE PROJECTION DO NOT SCALE UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETRES TOLERANCE: LINEAR ANGULAR: ± 1 mm ± 0.5 °					
	Keen Ocean Industrial Ltd. 侨洋实业有限公司				
	He Yuan Sky Wealth Electronic and Plastic Co., Ltd. 河源天裕电子塑胶有限公司				
MODEL NAME: TOROIDAL TRANSFORMER (环形变压器)		CUST. MODEL: (客户型号) 1000VA		MODEL NO.: (型号) T8BFN-85419 (TTO-85419-00L)	
		MATERIAL: 加工 FINISH: 比例 SCALE: 不适合 N.T.S 页码 PAGE: 5 / 6		SIGNATURE (署名) XYH CHECKED (审核): LZC APPROVED (认可): ZSH	
				DATE (日期) APR.02.2022 APR.02.2022 APR.02.2022	

Keen Ocean Industrial Ltd. (侨洋实业有限公司)

He Yuan Sky Wealth Electronic and Plastic Co. Ltd. (河源天裕电子塑胶有限公司)

产品型号(OUR MODEL): T8BFN-85419 (TTO-85419-00L)

客户型号(CUST. MODEL): 1000VA

标贴(LABEL)

Model No.: T8BFN-85419 Cust. Ref.:1000VA
Input: AC 220V 50Hz BLU-BRN
WI. 130 Deg.C THERMAL CUTOFF
SCREEN SHIELDING: YEL/GRN
Output: AC 220V 4.55A BLK-RED
Keen Ocean (TTO-85419-00L) [ww/yy]



Remark:

ww: week

yy: year

样品差异(SAMPLE DEVIATION)

编号(NO.)	描述(DESCRIPTION)	日期 DATE)
01	临时没有样品(No sample temporarily).	2022.04.02

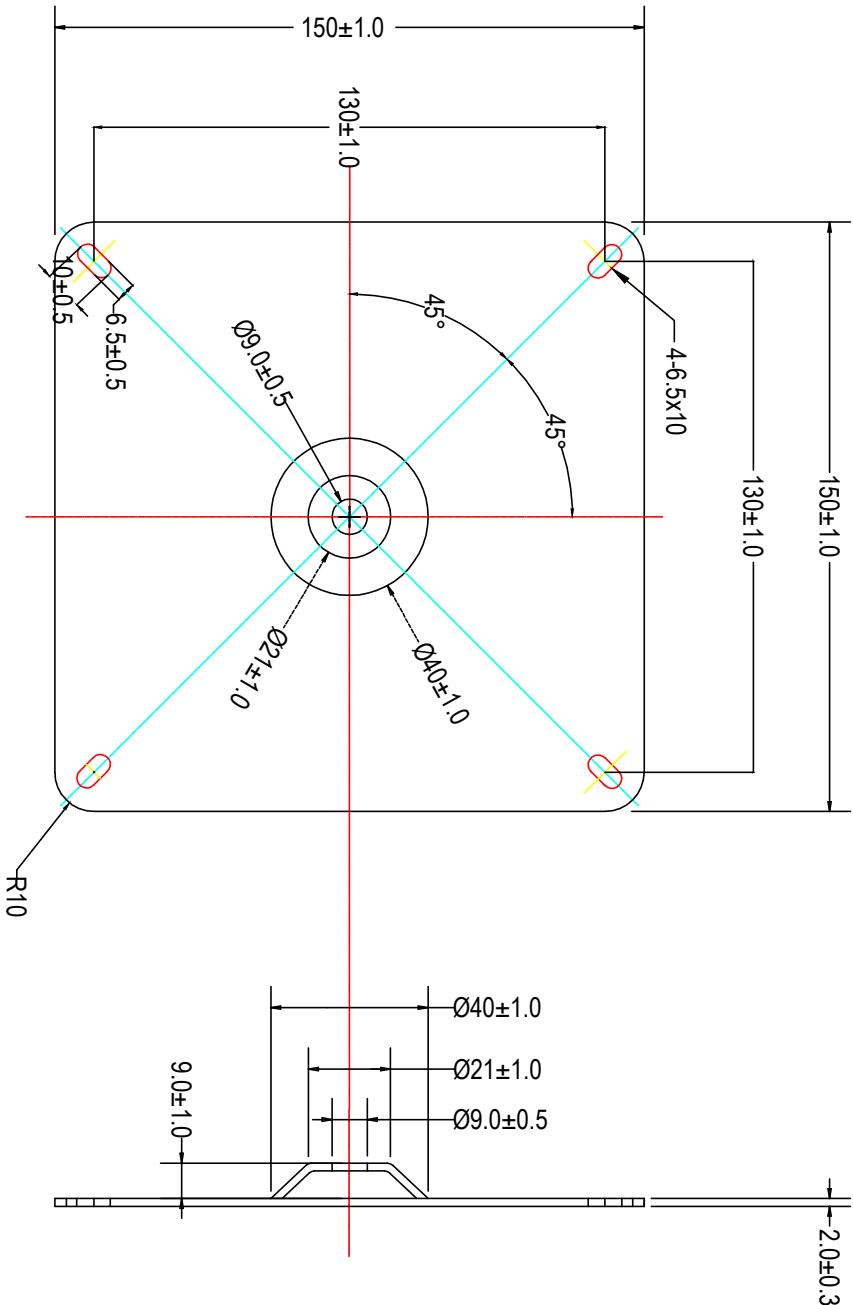
修正(REVISION)

编号(NO.)	描述(DESCRIPTION)	日期 DATE)


PHYSICAL DIMENSION

(物理尺寸)

1. 材質 (Materials): 冷軋鋼板 (Cold rolled steel sheet)
2. 顏色 (Colour): 黑色 (black)
3. 尺寸 (Size): 見右圖 (單位: mm)
4. 符合 RoHS 要求 (Meet to requirement of RoHS)。



REVISIONS (修正)			
ISSUE (序号)	DESCRIPTION (描述)	REV. BY (编制)	APPROVED BY (认可)
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3rd ANGLE PROJECTION		
	DO NOT SCALE	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETRES		
TOLERANCE: LINEAR ANGULAR:		
<div><div>± 1 mm</div><div>± 1°</div></div>		
Keen Ocean Industrial Ltd. 侨洋实业有限公司		
He Yuan Sky Wealth Electronic and Plastic Co., Ltd. 河源天裕电子塑胶有限公司		
MODEL NAME: 鐵底板		
MATERIAL:		SIGNATURE (署名)
FINISH:		DATE (日期)
SCALE: N T S		DRAWN (编制): XYH APR.02.2022
PAGE: 1 / 1		CHECKED (审核): LZC APR.02.2022
CUST. MODEL: (客户型号)		APPROVED (认可): ZSH APR.02.2022
1000VA		MODEL NO.: (型号) T8BFN-85419 (TTO-85419-00L)