

Customer:	3LDG0	Customer P/N:	
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SPECIFICATION FOR APPROVAL

Customer P/N			
Description	75W 反激变压器		
Place of origin	Zhongshan, Guangdong, China		
3L P/N	SMTEFD25Q-T-0.8UH-W4-CH		
Date	2025/06/11	Rev.	XA
Customer	Approved For Customer		
Seller	Drawn	Checked	Approved
			

Please Return After Approving

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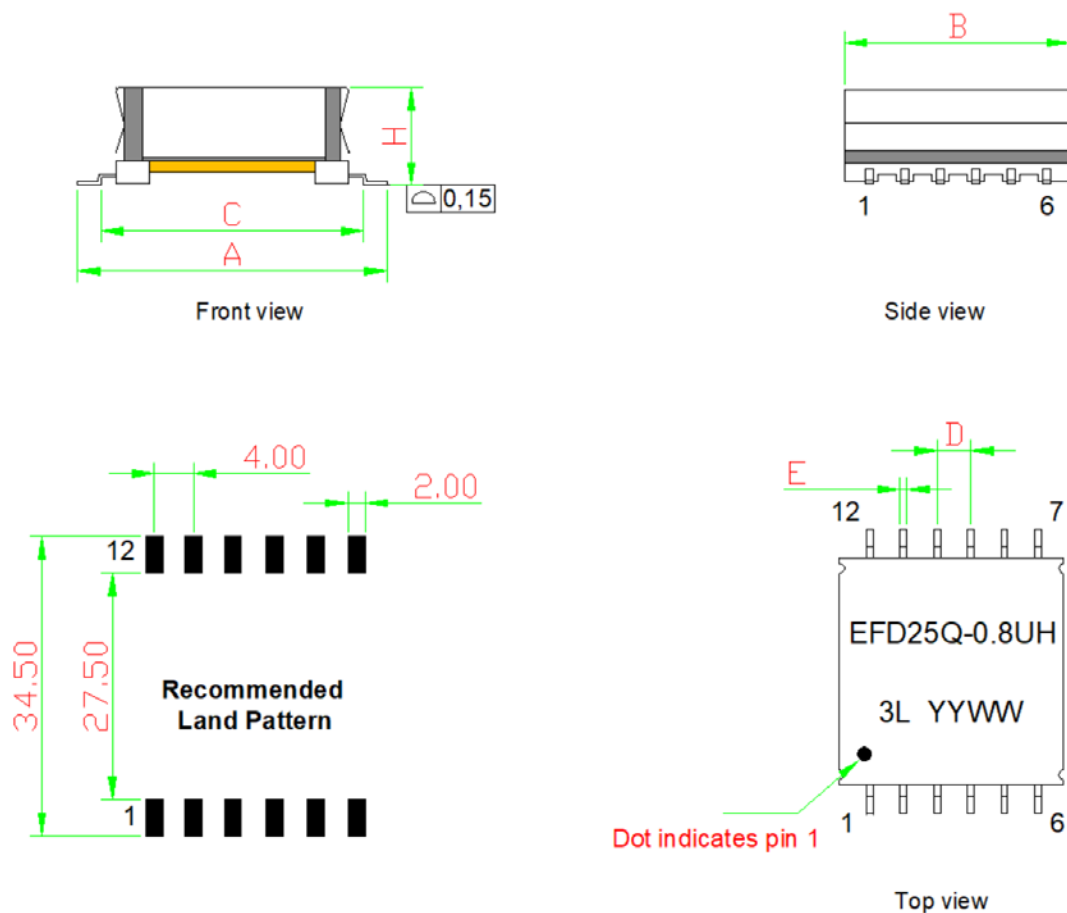
目录：

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1. Mechanical Dimension&Recommended PCB layout (Top View)



Item	Spec.(mm)	Typ.(mm)	Item	Spec.(mm)	Typ.(mm)
A	33.00 Max		F		
B	27.50 Max		G		
C	29.70 Typ		H	15.00 Max	
D	4.00+/-0.30		I		
E	1.00 Typ		J		

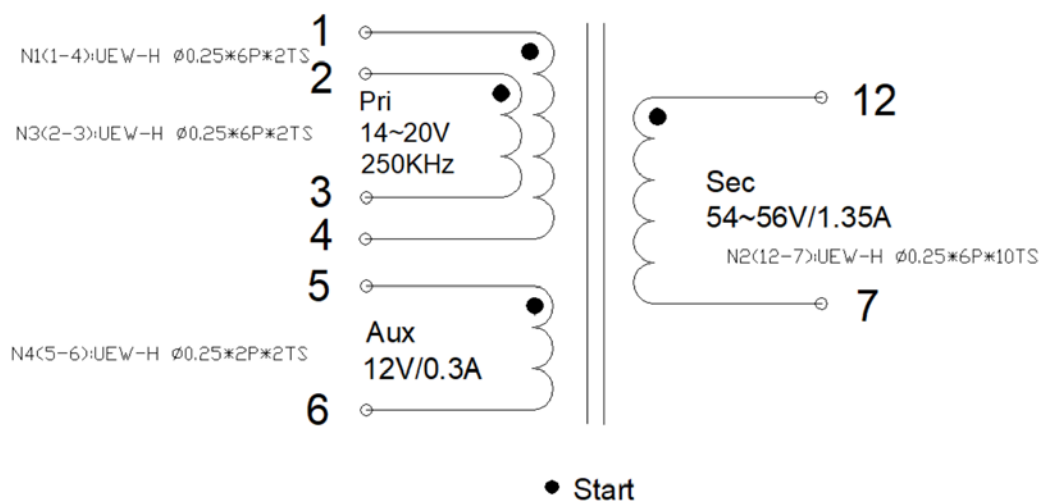
Notes:

- YYWW (YY 表示年份 WW 表示周期)
- 磁芯与骨架间需点胶固定
- 产品需浸凡立水

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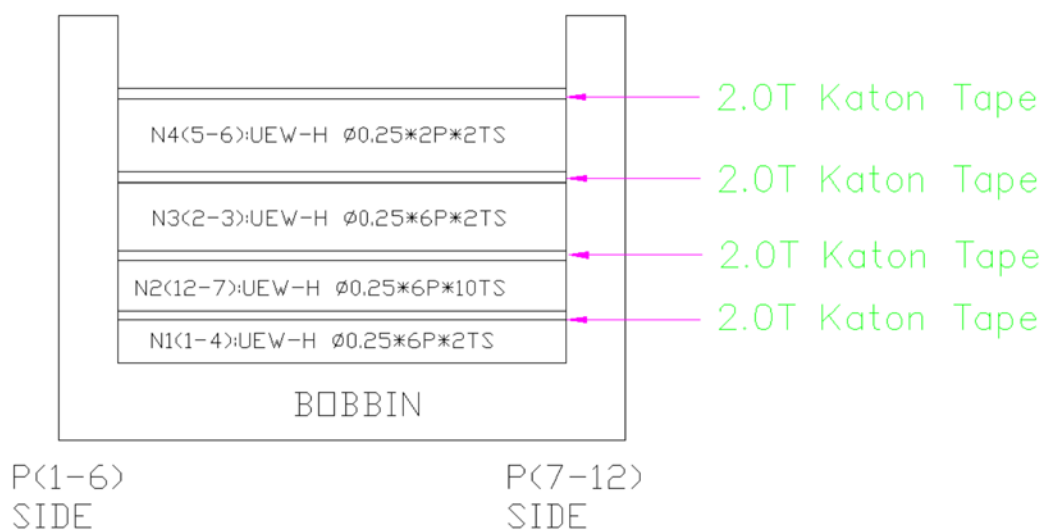
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Schematic



Connect pin1 to 2 & pin3 to 4 on the pcb

Coil Construction



Notes:

产品低电压 DC-DC,需满足基本绝缘

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Winding Table

Symbol	Start Pin	Finish Pin	Wire m/m	Wire Turns	Margin Tape	Teflon Tube	Kapton Tape Turns	Notes
N1	1	4	UEW-H ϕ 0.25 $\times$ 6P	2	N/A	N/A		
N2	12	7	UEW-H ϕ 0.25 $\times$ 6P	10	N/A	N/A	2	
N3	2	3	UEW-H ϕ 0.25 $\times$ 6P	2	N/A	N/A	2	
N4	5	6	UEW-H ϕ 0.25 $\times$ 2P	2	N/A	N/A	2	

Notes:

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2. Electrical Characteristics (at 25degC / RH 65% unless otherwise specified)

NO.	Test Item	Terminal	Test conditions	Test Instrument
1	Inductance	P(1,2-3,4) Tie P1+2;P3+4	0.8uH $\pm 10\%$	HP4284A METER or EQU. @100KHz 0.1Vrms
2	LK	P(1,2-3,4) Tie P1+2;P3+4 shorted other pins	0.1uH Max	HP4284A METER or EQU. @100KHz 0.1Vrms
3	DCR	P(1,2-3,4) Tie P1+2;P3+4	5.5m Ω Max	ChenHwa502 METER or EQU.
		P(5-6)	45.0m Ω Max	
		P(12-7)	43.0m Ω Max	
4	Hi-pot	P&A-S	1.5KV AC/50Hz/3mA/2S	Extech7142 METER or EQU.
		Wdg-C	0.5KV AC/50Hz/3mA/2S	
5	Turns ratio	Pri:Sec:Aux	2:10:2 $\pm 3\%$	TH2818XB METER or EQU @20KHz 1Vrms.
6	Operation temperature		-40°C TO +85°C	Testo608-H2 METER or EQU.

3. Materials List

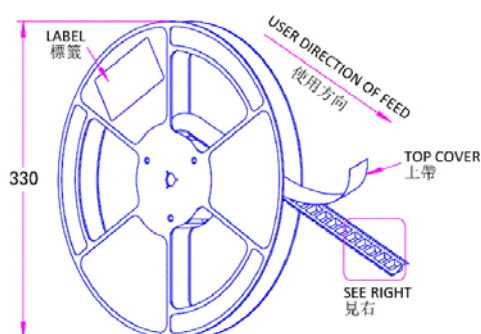
NO.	Item	Specificaton	UL NO.	Manufacturer
1	CORE	Ferrite EFD25	N/A	TAK TECHNOLOGY(HE YUAN) CO., LTD
2	BOBBIN	PM9630	E41429	SUMITTOMO BAKELITE CO.,LTD
3	CLIP	CLIP EFD25	N/A	DONGGUAN QIANXIN HARDWARE ELECTRONIC COMPANY
4	WIRE	P180	E258243	ELEKTRISOLA HANGZHOU CO.,LTD
5	TAPE	PF	E165111	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD
6	SOLDER	Sn99.3Cu0.7	N/A	DONGGUAN CITY THOUSAND ISAND METAL FOIL CO.,LTD
7	EPOXY	6020H	E229633	WELLS ELECTRONIC MATERIAL (GUANGZHOU) CO LTD
8	VARNISH	V1630FS	E75225	ELANTAS ELECTRICAL INSULATION ELA N TAS PDG INC

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4. Packaging Specification

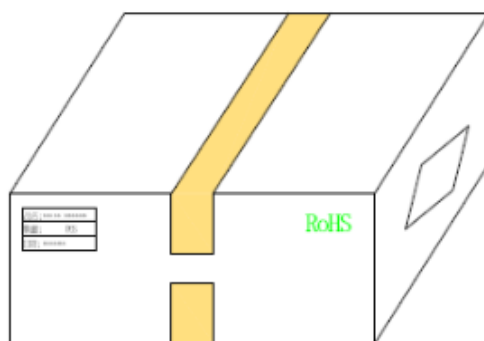
Inside Packaging



Each Reel Q'ty: TBD pcs

注:包装图可能使用同类品进行方法和要求的示范,可能与实物存在偏差!

Outside Packaging



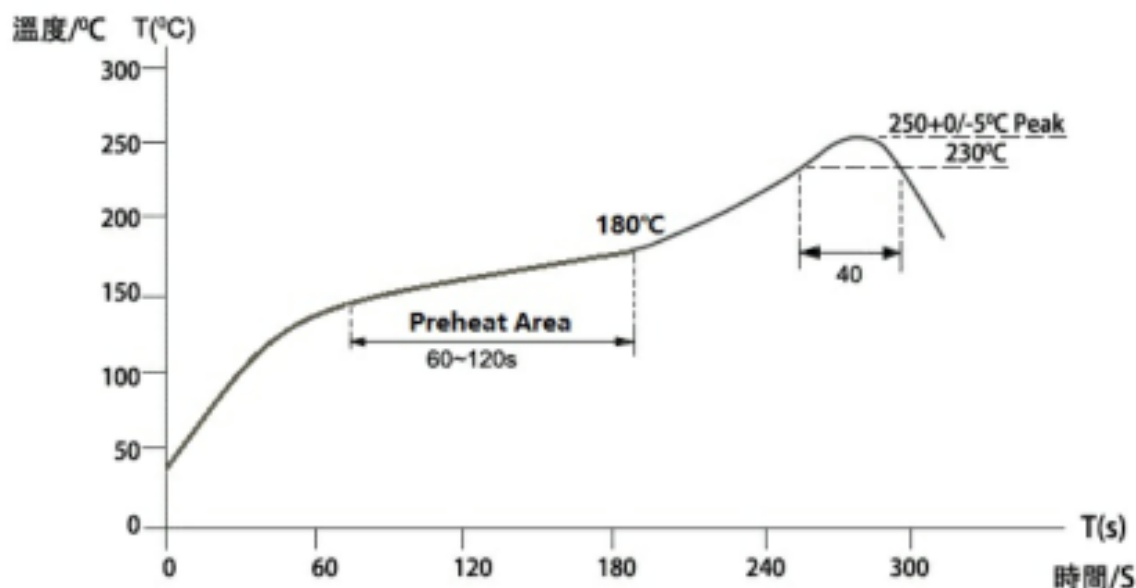
Each Carton : TBD

Notes:

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Appendix 1: Lead-free the recommended reflow condition (SMT Type)

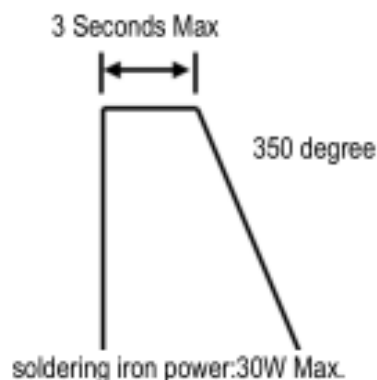


Notes:

The recommended reflow conditions as graph, is set according to our soldering equipment, due to various manufacturers may have different reflow soldering equipments, products, process conditions, set methods and so on, when setting the reflow conditions, Please adjust and confirm according to users' environment/equipments, Number of reflow soldering : No more than 2 times

Appendix 2: Soldering Iron (Rework)

1. Use a soldering iron to solder inductors by hand, times does not exceed 350 degrees 3 times.
2. When soldering iron welding, please try to avoid contacting the inductor itself. (definitely do not contact the wire)
3. To solder inductors by soldering iron is not recommended.



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客户信息:

Dear 周工,

回覆如下,以下只是需求參數,規司先以此需求回覆對應的設計參數給我司.

1. 因为你们提供了附件资料, 我按贵司资料做规格书
2. 请重新给下参数 我重新确认, 不行的话 我要重新设计

以下是設計需求規格:

- (1)输入最低电压 →DC 20V (範圍14~21V)
- (2)输出电压 电流 →DC 56V,1.35A (75W)
- (3)偏置绕组电压 电流 →DC 12V,0.3A
- (4)产品工作模式 (DCM/CCM)→DCM
- (5)产品工作频率→250K HZ (此參數會因為電路調整)

设计计算:

最小输入电压	Vin(DC)	14.00	V				
主输出电压(反馈)	Vout1	56.00	V	主输出电流	Iout1	1.35	A
输出电压 2	Vout2	12.00	V	输出电流 2	Iout2	0.30	A
输出电压 3	Vout3	0.00	V	输出电流 3	Iout3	0.00	A
输出电压 4	Vout4	0.00	V	输出电流 4	Iout4	0.00	A
输出电压 5	Vout5	0.00	V	输出电流 5	Iout5	0.00	A
输出电压 6	Vout6	0.00	V	输出电流 6	Iout6	0.00	A
开关频率	f	250.00	kHz	转换效率	η(假设)	0.90	
电流纹波系数	Krp(假设)	1.00		最大占空比	Dmax(假设)	0.45	
二极管压降	Vd(假设)	0.70	V	最大磁通密度	ΔBm(假设)	2300.00	Gs
开关管压降	Vces	0.50	V	电流密度	J(假设)	6.00	A/mm ²
磁芯截面积	Ae	55.00	mm ²	窗口铜填充系数	Ku	0.40	
输出功率	Po	80.36	W	Ton 时间	Ton	1.80	μs
输入功率	Pin	89.28	W	输入 ET 值	ET	24.30	V·μs
圈比	n=Np/Ns	0.19		磁芯的 ET	Δ B·Ae·N/100	25.30	Gs·cm ²
原边最小圈数	Np	1.92	V	原边电感	Lp	0.83	uH
原边实际圈数 (取整)	Np	2.00	A	Bac		2209.09	Gs
主输出计算圈数	Ns1	10	A	Bdc		1104.55	Gs
主输出实际圈数 (取整)	Ns1	10	A	Bmax(验证)	Bdc+1/2Bac	2209.09	Gs
输出 2 圈数	Ns2	2		磁芯气隙长度	lg	0.33	mm
输出 3 圈数	Ns3	0		初次级实际圈比	n	0.20	
输出 4 圈数	Ns4	0		实际最大占空比	Dmax	0.45	
输出 5 圈数	Ns5	0		AP 积计算(1)	AP	1035.17	mm ⁴
				AP 积计算(2)			
				集肤深度	δ	0.13	mm

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产品绝缘介绍与说明:

初、次级间两点间之绝缘由绝缘材料来隔离时(如 bobbin .tape.mylar 等)其材之耐压。厚度 1 层数必须符合法规之要求, 基本规则如下:

1)基本绝缘(耐压测试,一般为 1500VAC)无厚度与层数之要求, 但须符合耐压测试

2)附加绝缘(耐压测试,一般为 1500VAC)厚度至少 0.4mm 并符合附加绝缘所需之耐压测试或

<1>当厚度小于 0.4mm 时,至少有两层之绝缘, 每一层材料皆必须符合附加绝缘所需之耐压 测试,

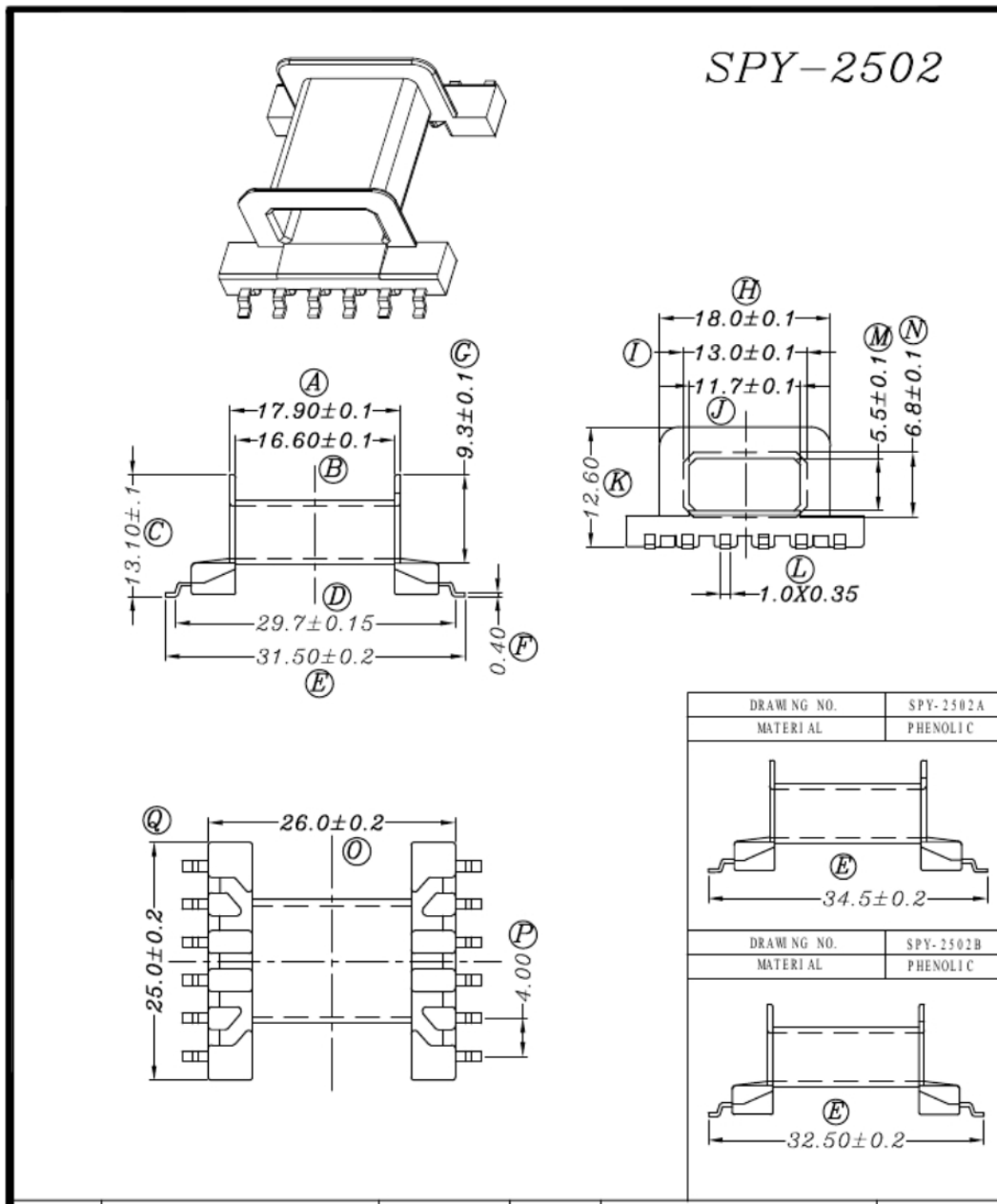
<2>当厚度小于 0.4mm 时, 至少有三层之绝缘,每两层材料皆符合附加绝缘耐压测试、

3)加强绝缘(耐压测试一般为 3000VAC)a.厚度至少 0.4mmb.厚度小于 0.4mm 时, 至少有两层之绝缘(如绝缘胶布), 每一层材料, 必须符合加强绝缘所需耐压测试或 c.当厚度小于 0.4mm 时, 至少有三层之绝缘(如绝缘胶布)在每两层材料必须符合加强绝缘所需之耐压测试。

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骨架尺寸图:



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磁芯特性:

材料特性 MATERIAL CHARACTERISTICS (Mn-Zn Ferrite)



1. 功率鐵氧體材料 Power ferrite materials

CHARACTERISTICS (特性)	UNIT (單位)		TP40	TP44	TP45	TM80
Initial permeability μ_{iac} (初磁導率)			2400 $\pm 25\%$	2000 $\pm 25\%$	2500 $\pm 25\%$	3000 $\pm 25\%$
Saturation flux density at 1194A/m $B_s(m)$ (飽和磁束密度)	25°C 100°C	mT	480 390	500 /	500 /	520 410
Remanence at 1194A/m B_r (殘留磁束密度)	25°C 100°C	mT	150 60	150 /	130 /	85 60
Coercivity at 1194A/m H_c (保磁力)	25°C 100°C	A/m	12 6.5	12 /	10 /	9.5 7
α_{μ} (溫度系數)		$\times 10^{-6}/^{\circ}\text{C}$	/	8	/	<0.1
Relative loss factor $\tan\delta/\mu_{iac}$ (相對損失因子)		$\times 10^{-6}$	/	<5	/	/
Curie Temperature T_c (居里溫度)		$^{\circ}\text{C}$	≥ 220	≥ 220	≥ 210	≥ 230
Density D (密度)		g/cm^3	4.80	4.80	4.80	4.90
Electrical resistivity ρ (表面電阻)		Ωm	9	6.5	6	5.5
Pcv (功率損耗)	100kHz/200mT	25°C	720	600	600	430
		60°C	550	420	370	360
		80°C	/	/	300	/
		100°C	480	330	400	310
		120°C	600	400	/	380

注：各項數值均為環形磁芯測得的典型數值。由于幾何形狀和尺寸的影響，產品規格將與這些數據不同。

Note: All the values are typical values measured by specified toroid core. Product specifications will differ from these data due to the impact of geometry and dimensions.

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材料特性 MATERIAL CHARACTERISTICS (Mn-Zn Ferrite)



TP44 型功率鐵氧體材料

Power ferrite material TP44

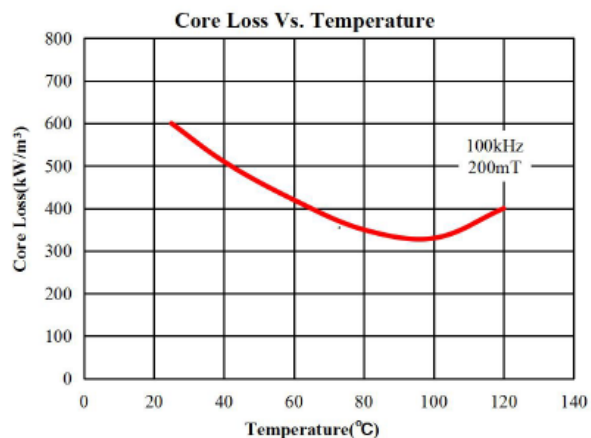
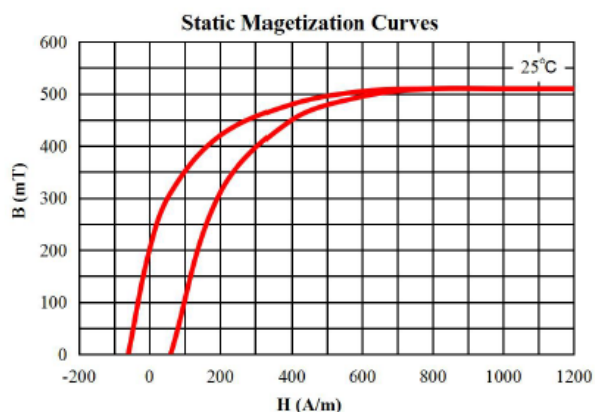
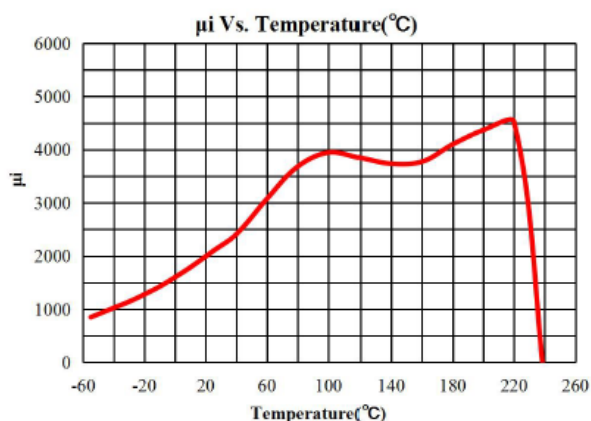
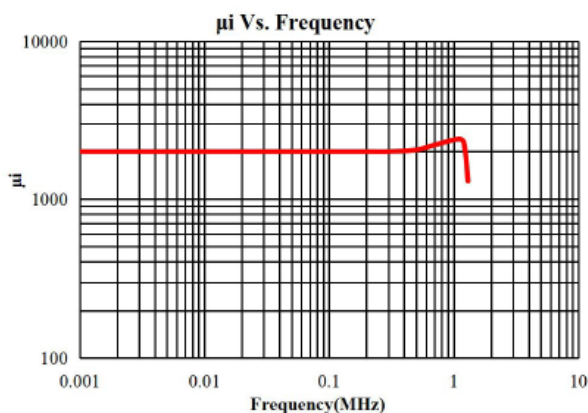
CHARACTERISTICS (特性)	UNIT (單位)		TP44
Initial permeability μ_{iac} (初磁導率)			2000 $\pm 25\%$
Saturation flux density at 1194A/m $B_s(m)$ (飽和磁束密度)	25°C 100°C	mT	500 /
Remanence at 1194A/m B_r (殘留磁束密度)	25°C 100°C	mT	150 /
Coercivity at 1194A/m H_c (保磁力)	25°C 100°C	A/m	12 /
$\alpha\mu$ (溫度係數)		$\times 10^{-6}/^\circ\text{C}$	8
Relative loss factor $\tan\delta/\mu_{iac}$ (相對損失因子)		$\times 10^{-6}$	<5
Curie Temperature T_c (居里溫度)		°C	≥ 240
Density D (密度)		g/cm ³	4.80
Electrical resistivity ρ (表面電阻)		Ωm	6.5
Pcv (功率損耗)	100kHz/200mT	25°C	600
		60°C	420
		80°C	/
		100°C	330
		120°C	400

注：各項數值均為環形磁芯測得的典型數值。

由於幾何形狀和尺寸的影響，產品規格將與這些數據不同。

Note: All the values are typical values measured by specified toroid core.

Product specifications will differ from these data due to the impact of geometry and dimensions.



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漆包线特性:

ELEKTRISOLA Hangzhou Co., Ltd.

Xiao Ling Tou, Pingyao, Yuhang, Hangzhou, 311115, China, Tel. +86 571 8852 0788, Fax: ++86 571 8852 0780

ISO 9001:2015
IATF 16949:2016
Certified Quality System

漆包线测试证书 Test Certificate for Enamelled Wire		
按 /according to EN 10204:2004 3.1 编号 / No.: 922856 日期 / Date: 2025/6/4		
产品 ELEKTRISOLA Product	产品信息 Product Identification	客户信息 Customer References
漆包线 / Enamelled Copper Wire 裸导体标称直径 :0.25 mm Nominal-Ø 绝缘漆材料种类 :P180 Polysol-180 Enamel Type 等级 / Grade :Grade 1 颜色 / Color :clear 线轴 / Spools : PT15LW 数量 / Quantity :	生产批号 : Mfg. Order No. 客户编号 : E-Customer No. 订单编号 : E-Order No. 送货单编号 : Delivery Note No. 送货单日期 : Delivery Note Date	客户物料编号 Cust. Part No.: 客户订单编号 Cust. Order No.: 订单日期 Date of Order:

以下是对此生产批内的产品作出各种受控制的技术特性之评估结果:
The controlled technical characteristics of the production lot have been evaluated as follows:

No. 项目 / Item	单位 Unit	Tolerance		数量 n	Measured Values		
		最小 Min	最大 Max		最小 Min	平均值 x	最大 Max
产品参数 / Product-Items							
100裸线直径 / Bare diameter	mm	0.246	0.254	3	0.249	0.249	0.250
120外径 / Outer diameter	mm	0.267	0.281	16	0.273	0.275	0.276
121 EAPC 外径 / Outer diameter EAPC	Cpk	1.33	-	30,545	> 2.00	-	-
130表面 / Surface appearance	-	合格 / pass	-	16	合格 / pass	-	-
140拉伸率 / Elongation	%	25.0	-	3	40.0	41.0	42.4
141抗张强度 / Tens. Strength	N/mm²	-	-	3	274	274	274
143 1%变形强度 / 1% yield	N/mm²	-	-	3	149	150	151
144附着性及柔韧性 / Adh. & flex.	-	合格 / pass	-	3	合格 / pass	-	-
150绕线 / Spooling	-	合格 / pass	-	16	合格 / pass	-	-
200直流电阻 / D.C. Resistance	Ohm/m	0.3345	0.3628	3	0.3492	0.3494	0.3498
210击穿电压 / BDV cyl.	V	1,325	-	3	4,212	4,538	4,866
217每微米击穿电压 / BDV cyl. V/μm	V/μm	-	-	3	176	184	194
250针孔 / Pinholes 0%, 12V	#	-	8	3	0	0	0
生产参数 / Process-Items							
900速度 / Speed	Cpk	1.33	-	4,240	> 2.00	-	-
910固化温度 / Curing temp.	Cpk	1.33	-	4,240	> 2.00	-	-
920退火功率 / Anneal. power	Cpk	1.33	-	5,045	> 2.00	-	-

谨此确认本厂漆包线符合 IEC 60317, EU Directives 2011/65/EU RoHS, Order of Ministry of Information Industry No.39, China PRC RoHS 标准的要求。其中双方同意的外径取代最小增加值的要求。
Hereby we confirm that the magnet wire conforms to IEC 60317, EU Directives 2011/65/EU RoHS, Order of Ministry of Information Industry No.39, China PRC RoHS. Therein the mutual agreed outer diameter supercedes the min. increase requirement.

Jake Chengzhenhui
质量经理/Quality Manager

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高温胶带规格书:



惠州亚华胶粘带有限公司 HUIZHOU YAHUA STICKING TAPE CO.,LTD.			PF-301
项目 ITEM	规格 SPECIFICATION		
外观 APPEARANCE	胶带表面没有刮伤、裂痕、污染等其它缺点，胶粘面必须均匀，颜色必须一致。 The tape must be wrapped uniformly. The wick does not thrust out. The whole must not become like the bowl. Both sides must be flat. The color must be the same. They must not dirt and wound.		
颜色 COLOR	棕色 Brown		
基材 Base Material	聚酰亚胺薄膜 Polyamide Film	胶粘剂 Glue	硅胶树脂 Sillica-gel Resin
尺寸 DIMENSION	厚度 THICKNESS (mm)	基材 Base Material	总厚度 Total Thickness
		0.025±0.003	0.065±0.010
	宽度 WIDTH (mm)	指定宽度(2.00≤W≤960.00)±0.20 SPECIFIED WIDTH (2.00≤W≤960.00)±0.20	
	长度 LENGTH (m)	33.00±0.50	
	塑料管内径 (mm)	76.00±2.00	

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特性 CHARACTERISTICS	拉伸强度 PULL STRENGTH POWER (N/10mm)	≥50
	180° 剥离强度 PEELING STRENGTH(N/M)	≥300
	伸长率 ELONGATION (%)	≥55
	击穿电压 DIELECTRIC BREAKDOWN (KV)	≥5.5
	耐高温 HEAT RESISTANCE	180℃
	耐寒性 COLD RESISTANCE	≤-10℃
	CTI	IIIb
库存条件 STORAGE VALIDITY	25℃、65%RH	
库存有效期限 PERIOD OF VALIDITY (YEAR)	1 年	
包装 PACKING	包装能确保产品在运输、保管过程中不受到损伤 Wrap the tape without damage. Put the tape in the fiberboard by an appropriate amount.	
标记 MARKING	产品名称及型号 规格及数量（数量单位为卷）、颜色 生产日期及批号 生产厂名及商标（YAHUA） The following items displayed in the place where the wrapped product is seen easily: Articles, Dimension and Quantity, Color. Manufacture date or lot NO. Manufacture name (YAHUA)	

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骨架 UL:

QMFZ2 Component - Plastics

Friday, October 24, 2003

E41429

SUMITOMO BAKELITE CO LTD

5-8 HIGASHI-SHINAGAWA 2-CHOME SHINAGAWA-KU TOKYO 140-0002 JP

 Material Designation: **PM-9630**

Product Description: Phenolic (PF), designated "Sumikon" furnished as pellets, granular material.

Color	Min. Thick. (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str	IEC GWIT	IEC GWFI
BK	0.16	V-0	4	0	150	150	150	-	-
	0.32	V-0	3	0	150	150	150	-	-
	0.51	V-0	0	0	150	150	150	-	-
	3.0	V-0	0	1	150	150	150	-	-

CTI: 3

IEC CTI: -

HVTR: 0

D495: 4

IEC Ball Pressure (°C): -

Dielectric Strength (kV/mm): -

 Volume Resistivity (10⁹ohm-cm): -

Dimensional Stability(%): -

ISO Tensile Strength (MPa): -

ISO Flexural Strength (MPa): -

ISO Heat Deflection (°C): -

 ISO Tensile Impact (kJ/m²): -

 ISO Izod Impact (kJ/m²): -

 ISO Charpy Impact (kJ/m²): -

Report Date: 11/5/1997

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UL94 small-scale test data does not pertain to building materials, furnishings and related contents. UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in components and parts of end-product devices and appliances, where the acceptability of the combination is determined by ULI.

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漆包线 UL:



ONLINE CERTIFICATIONS DIRECTORY

OBMW2.E258243 Magnet Wire - Component

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Magnet Wire - Component

See General Information for Magnet Wire - Component

ELEKTRISOLA HANGZHOU CO LTD
XIAO LING TOU
PINGYAO
YUHANG
HANGZHOU, ZHEJIANG 311115 CHINA

E258243

Mtl Dsg	Mark Dsg	Coat Type		ANSI Type	Temp Class ®
		BC	OC		
Estersol 180	E180	Polyester-imide (solderable)	?/TD>	MW-77	180
Amidester 200	A200	Polyester-imide	?/TD>	MW-74	200
Polysol-N 155	PN155	Polyurethane	Nylon	MW-80, MW-28	155, (+)130
Polysol 155	P155, G155	Polyurethane	?/TD>	MW-79, MW-75	155, (+)130
Polysol 155g	Pg155	Polyurethane	?/TD>	MW75	130
Polysol 155p	Pp155, Gp155	Polyurethane	?/TD>	MW79	155
Polysol 170	P170, G170	Polyurethane	?/TD>	MW79	155
Polysol 180	P180, G180	Polyurethane	?/TD>	MW82, MW79	180, (+)155
Polysol-N 180	PN180	Polyurethane	Nylon	MW83	180
Polysol P155p	P155p	Polyurethane	?/TD>	MW79	155
Amidester-AI 210	AI 210	Ester-imide	Amide-imide	MW35, MW73	200

® - Magnet wire from a higher temperature class may be used in an insulation system as a substitute for magnet wire from a lower temperature class when both magnet wires are from the same family (non-solderable for non-solderable, solderable for solderable, polyurethane for polyurethane, etc.).

(+) - Additional consideration is needed before wire is used in an insulation system thermal aging program.

Marking: Company name and material designation or marked designation on package or reel.

Last Updated on 2005-11-03

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绝缘胶带 UL:


ONLINE CERTIFICATIONS DIRECTORY

OANZ2.E165111
Insulating Tape - Component

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Insulating Tape - Component

[See General Information for Insulating Tape - Component](#)

JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD
SOUTHWEST AROUND RD
JINGJIANG, JIANGSU 214500 CHINA

E165111

Flame retardant copper foil tape, Cat. No. CP-3002#.

Nonwoven cloth/polyethylene terephthalate film insulating tape, Cat. No. WF with suffixes, rated 130 C* (c) (h).

Polyimide film insulating tape, Cat. No. PF with suffixes, rated 180 C* (d) (g).

Polyethylene terephthalate film insulating tape, Cat. No. CT with suffixes, yellow color, rated 130 C*(c) (e) (g).

Polyethylene terephthalate film insulating tape, Cat. No. CT with suffixes, all colors except yellow, rated 130 C(b)(f) (g).

Polyethylene terephthalate film insulating tape, Cat. No. PZ with additional suffixes, rated 130 C*(b).

PET film with acrylic adhesive insulating tape, Cat. No. CT-280B, yellow color only, rated 130C.

*Complies with flame retardant requirements when so marked.

Markings shall include "Flame Retardant".

(b)Comparative Tracking Index (CTI) performance indicates material Group IIIa, PLC=2, CTI equal to or greater than 250 but less than 400 v.

(c)Comparative Tracking Index (CTI) performance indicates material Group I, PLC=0, CTI equal to or greater than 600 v.

(d)Comparative Tracking Index (CTI) performance indicates material Group IIIB, PLC=4, CTI equal to or greater than 100 v but less than 175v.

(e) - Yellow color only

(f) - All colors except yellow

(g) - The CTI test was conducted per IEC 112, 3rd Edition 1979 and the assigned level is based on the testing of both film and adhesive sides.

(h) - The CTI test was conducted per IEC 60112, 4th Edition 2003 and the assigned level is based on the testing of both film and adhesive sides.

Marking: Company name or file number "E165111" and catalog designation printed on the carton, wrapper or core.

[Last Updated](#) on 2012-03-19

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2012 UL LLC

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EPOXY UL:



ONLINE CERTIFICATIONS DIRECTORY

QMFZ2.E229633 Plastics - Component

Additional information regarding this certification can be found in UL's iQ Family of Databases (iq.ul.com).

NEW -- for additional information concerning the individual material, click on the material designation.

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Plastics - Component

[See General Information for Plastics - Component](#)

WELLS ELECTRONIC MATERIAL (GUANGZHOU) CO LTD
39 JUNGONG RD
ECONOMY AND
TECHNIC DEVELOPMENT EAST ZONE
GUANGZHOU, GUANGDONG 510000 CHINA

E229633

		Min.		H	H	R T I			H	D
		Thk	Flame	W	A	Elec	Mech		V	4
		mm	Class	I	I		Imp	Str	R	5
Material Dsg	Color									
Epoxy, furnished as two liquid components.										
9001A/B-80(f1)(@)	BL	2.0	V-0	-	-	90	90	90		
		3.0	V-0	-	-	90	90	90		
9001A/B-SY	BK, WH	1.0	V-0	-	-	90	90	90		
		3.0	V-0	-	-	90	90	90		
9002GA/B-SY	ALL	1.0-1.1	V-0	-	-	90	90	90		
Epoxy Casting Compound (EP - Casting), furnished as two liquid components.										
6020H	GY	1.0 (ONLY)	V-0	-	-	90	90	90		

(@) - Grade 9001A/B-80 is clear in blue color.

(f1) - Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.

Marking: Company name and material designation on container, wrapper or finished part.

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凡立水 UL:

2017/9/1

UL Certification

iq.ul.com

Varnishes

E75225

[guide info]

ELANTAS ELECTRICAL INSULATION ELANTAS PDG INC

5200 N 2ND ST, SAINT LOUIS MO 63147-3122

V1630, V1630FS, V1630FS50, V1630FS Black, 80361, 80361FC

ANSI Type	Twisted Pair Temp (°C)	Helical Coil Temp (°C)	Curved Electrode Temp (°C)
MW 80-C	155	-	-
MW 35-C	180	180	-

Report Date: 1990-04-02

Last
Revised: 2014-11-17

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