

承認通知書

PASS

編號: SD-435/B

DATE: 92-06-17

VENDOR	鏡普	VENDOR P/N	91-10020843
MODEL NUMBER	UP05051200-01	POTRANS P/N	2600000000020

DESCRIPTION: 變壓器 PQ2620

測試結果: 承認 暫承認, 限量交貨 PCS

備註: 廠商交貨時, 須附出廠檢驗測試報告
 廠商交貨時, 須隨貨附材質證明書
 變更部份合格, 其餘部份請依原規格驗收

零件測試及檢討: 請承認

APPROVED SIGNATURES

採購		零件標準		產品開發	
主辦	主管	主辦	主管	主辦	主管
		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
				92.06.17.	92/6/17

規格承認書

SPECIFICATION FOR APPROVAL

Customer: 鴻運

Part No. : 260000000020 (UP05051200-01)

Sample No: 91-10020843

Description: TRANSFORMER

Issue Date: MAR.31 . 2003

	“√”	Customer's Signature's	SIGNATURE
Full Approved			
Conditional Approved			
Rejected			

DRAWER	CHECKED		APPROVED
林啟基	謝和軍	洪小英	邱素月



銳普電子股份有限公司
XEPEX ELECTRONICS CO., LTD.

台北縣中和市建八路2號10F

10 F, NO 2, Jian-Ba Rd., Chung-Ho City,

Taipei Hsien, Taiwan, R. O. C

TEL : (886) 2 8226-1868

FAX : (886) 2 8226-1819

工 程 圖

承認狀態:OK

發行編號:

1	0	0	2	0	8	4	3	-	1	.	1
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客戶: 1002 產品類型: TRANSFORMER 規格: PQ26*20

料號及版本: 260000000020

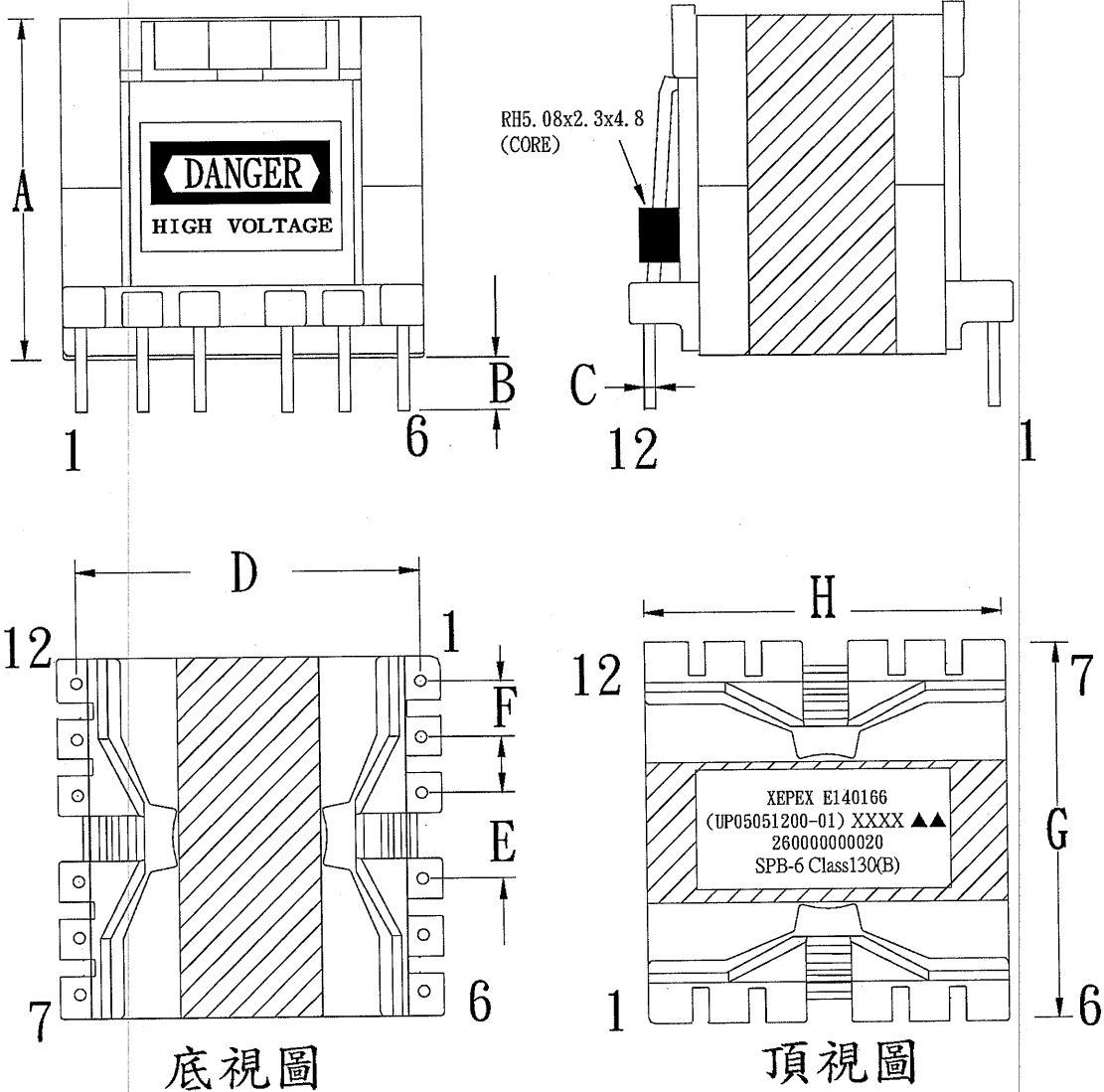
制作時間: _____

變更說明:

項次	時間	版 本 (發行編號)	變更內容說明	DRAWER	CHECKED	APPROVED
1		1.0	92.02.20 承認書簽回 A 版			
2	92.03.31	1.1	客戶修改電感原 460uH 改為 400uH,重疊電流改為 350uH MIN PIN長原 2.9 改為 3.5 mm, 重送承認書	邱素月		

SPECIFICATION

1. PHYSICAL DIMENSION(UNIT: m/m): (外觀圖尺寸)



▲▲ 表示生產地(“XP”表示深圳銳普,“KXP”表示昆山銳普,“TJXP”表示天津銳普)
 “XXXX”前兩個“XX”表示公元年份,后兩個“XX”表示周期。

- *. PIN2,7,12 CUT OFF;PIN5 CUT OFF 1/2.
- *. 黃底不帶閃電危險標籤貼于 PIN(1~6)側線包上
- *. CORE TAPE UL(黃) 3TS 如外觀圖所示)

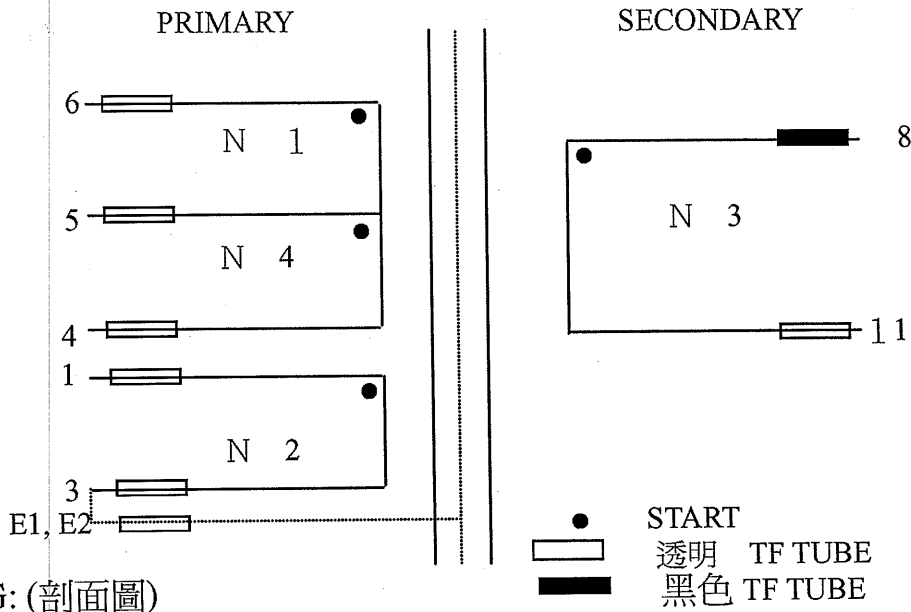
DIM	A	B	C	D	E	F	G	H	I	J
	MAX	+/-0.3	±0.1	±0.5	±0.5	±0.5	MAX	MAX		
SPEC	23.0	3.5	0.6	25.4	7.5	3.8	33.0	28.5		

銳普電子股份有限公司 XEPEX XEPEX ELECTRONICS CO., LTD.	DESCRIPTION	TRANSFORMER
	PART/NO	260000000020 (UP05051200-01)
	DRAW/NO	10020843-1.1

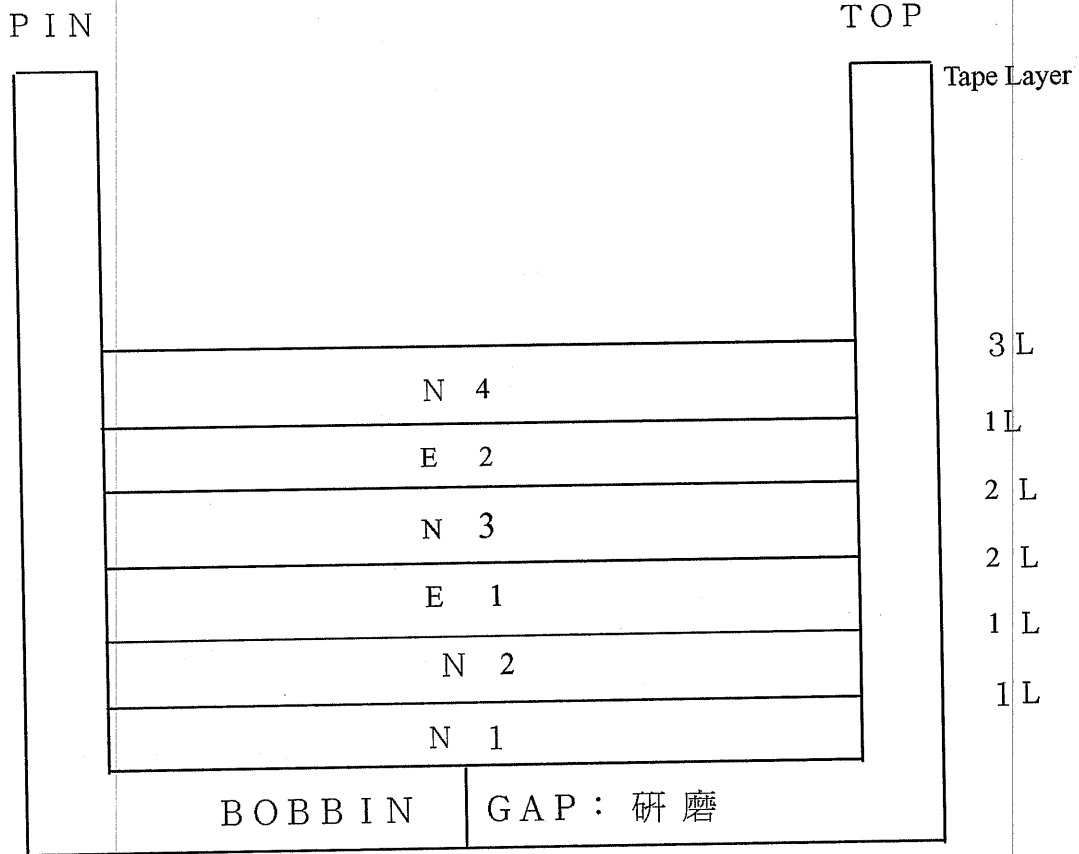
DRAWER	作	CHECKED	評	法	APPROVED	邱
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SPECIFICATION

2. SCHEMATIC: (線路圖)



3. WINDING: (剖面圖)



銳普電子股份有限公司
XEPEX ELECTRONICS CO., LTD.

DESCRIPTION	TRANSFORMER
PART/NO	260000000020 (UP05051200-01)
DRAW/NO	10020843-1.1

DRAWER	<i>付嘉</i>	CHECKED	<i>許如軍</i>	<i>法小英</i>	APPROVED	<i>邱素月</i>
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SPECIFICATION

4. WINDING TABLE: (繞線結構)

Winding No (組別)	Margin Tape (檔牆膠帶)	PIN (腳位)	Wire & Wire Copper (線徑 X 股數)	Turns (圈數)	Winding Tape (繞線方式)	Tape Layer (膠帶層次)	Tube (套管)
N 1	0	6 ~ 5	0.4 ϕ x 1P	21 TS	密繞	1 L	24*17/24*14
N 2	0	1 ~ 3	0.25 ϕ x 1P	8 TS	疏繞	1 L	28*17/28*17
E 1	0	3 ~	0.025*6mm	1.1 TS	背膠	2 L	24*7/0
N 3	0	8 ~ 11	0.45 ϕ x 2 P (三層絕緣線)	11 TS	密繞	2 L	16*25(黑色)/ 16*25(透明)
E 2	0	3 ~	0.025*6mm	1.1 TS	背膠	1 L	24*7/0
N 4	0	5 ~ 4	0.4 ϕ x 1P	21 T	密繞	3 L	24*14/24*14

NOTE:

1. 不加檔牆膠帶,進出線須穿 TF TUBE .
2. N3 為三層絕緣線,從頂部進出線,進線穿黑色 TF TUBE,出線穿透明 TF TUBE.待繞完 N4 後各穿 1PCS RH5.08*2.36*4.8 (K5B&K5A)之 CORE 於進出線上,再折回 PIN8 及 PIN11.(須先剝皮再鍍錫).
3. E1,E2 為背膠內銅,從有線端起繞,焊點朝下,接單芯線 0.40 ϕ x 1P .
4. N1,N4 分別占一層餘,不須層隔. N3 占二層,不須層隔


 銳普電子股份有限公司 XEPEX ELECTRONICS CO., LTD.	DESCRIPTION		TRANSFORMER		
	PART/NO		260000000020 (UP05051200-01)		
	DRAW/NO		10020843-1.1		
DRAWER	[Signature]	CHECKED	[Signature]	APPROVED	邱素月

SPECIFICATION

5. ELECTRICAL CHARACTERISTIC:(電器特性)

TEST CONDITION : TEMPERATURE AT 25°C
HUMIDITY AT 65 ±5% RH


TEST ITEM (測試項目)	TEST CONDITION (測試條件)	RESULT (條件範圍值)
INDUCTANCE (電感) 測試儀器:CH-100	@ 10KHz, 0.25V (6~4) (8~11) (1~3)	400 uH +/-5% 29 uH REF 14.5uH REF
重疊電流 Zentech3305&1320	@ 10KHz, 0.25V (6~4)Load:4.0A	350 uH MIN
LEAKAGE INDUCTANCE (漏感) 測試儀器:CH-100	@ 10KHz, 0.25V (6~4) SHORTED→其它 PIN	45uH MAX
DC.RESISTANCE (電阻) 測試儀器: CH-502A	(6~4) (8~11) (1~3)	0.50Ω MAX 50mΩ MAX 250mΩ MAX
HI-POT TEST (耐壓測試) 測試儀器:CH-9052	@ 5mA 1SEC (AC)	P <-> S 3.00 KV; P <-> C 1.50 KV; S <-> C 1.50 KV;

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	DRAW/NO	10020843-1.1				
DRAWER	許啟華	CHECKED	許啟華	許啟華	APPROVED	邱素月

SPECIFICATION

6. MATERIAL LIST :


ITEM		MATERIAL	SUPPLIER OR MANUFACTURER	TEMP RATING
1	CORE	FERRITE CORE PQ26*20 (PC44&PC40) (PL-9)	TDK SAMWHA ELECTRONICS CO., LTD.	
	CORE	FERRITE CORES RH5.08*2.36*4.8 (K5B)&(K5A) 指定	WHOLE YIK CO., LTD	
2	BOBBIN	CP-J-8800 PQ-26*20 12PIN (YW-421)	CHANG CHUN PLASTICS CO., LTD UL NO E59481(S)	150°C
3.	WIRE	POLYURETHANE ENAMELLED COPPER (2UEW)	PACIFIC ELECTRIC WIRE & CABLE CO., LTD UL NO E201757 TA YA ELECTRIC WIRE & CABLE CO., LTD UL NO E84201(S) DIFA WIRE & CABLE CO., LTD UL NO E177138	130°C
4	TRIPLE WIRE	TRIPLE INSULATION TEX-E	FURUKAWA ELECTRIC CO LTD UL NO E206440	105°C
5	TAPE	POLYESTER FILM TAPE (YELLOW) 3M 1350F-1	MINNESOTA MINING & MFG ELECTRICAL UL NO E17385	130°C
6	TUBE	TEFLON TUBE ZEUS TFE-TW-300V	ZEUS INDUSTRIAL PROUCTSINC CO., LTD UL NO E64007(M)	200°C
7	COPPER	0.025x6mm	S . M . W GERMANY	
8	VARNISH	TVB-2180T.	TOSHIBA CHEMICAL CORP UL NO E83702	155°C

 銳普電子股份有限公司 XEPEX XEPEX ELECTRONICS CO., LTD.	DESCRIPTION	TRANSFORMER			
	PART/NO	260000000020 (UP05051200-01)			
	DRAW/NO	10020843-1.1			
DRAWER	許志輝	CHECKED	許志輝	APPROVED	邱素月

SPECIFICATION

附頁

品質異常記錄:

 銳普電子股份有限公司 XEPEX ELECTRONICS CO., LTD.	DESCRIPTION	TRANSFORMER
	PART/NO	260000000020 (UP05051200-01)
	DAR/NO	10020843-1.1
DRAWER	CHECKED	APPROVED

SPECIFICATION

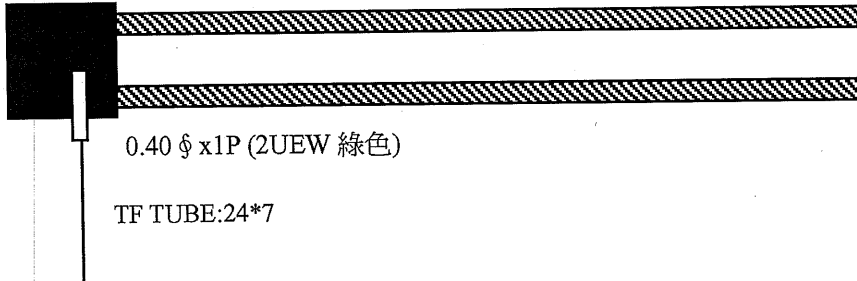
附圖



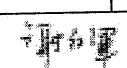

1. COPPER FOIL DIMENSION(UNIT: m/m):

1. 內銅箔加工方法如下: (繞制時, 焊點朝下)

E1, E2: 0.025x6x47(60)mm (背膠)

10.0mmx1L TAPE UL(黃)



	銳普電子股份有限公司			DESCRIPTION	TRANSFORMER
	XEPEX ELECTRONICS CO., LTD.			PART/NO	260000000020 (UP05051200-01)
				DRAW/NO	10020843-1.1
DRAWER		CHECKED		APPROVED	

QR-404-04-01

SPECIFICATION

變更說明:

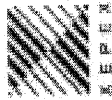
項次	日期	版本 (發行編號)	變更內容說明
	03.02.19	1.0	修改 L 值及重疊電流
	03.03.31	1.1	客戶修改電感原 460uH 改為 400uH,重層電流 350uH MIN PIN 長原 2.9 改為 3.5 mm



銳普電子股份有限公司

XEPEX ELECTRONICS CO., LTD

DESCRIPTION	TRANSFORMER
PART/NO	260000000020 (UP05051200-01)
DRAW/NO	91-10020843-1.1



COMPONENT (Cpk) DATA SHEET

03.04.03

PART NO.: UP05051200-01

MAKER: XEPEX

MAKER P/N: 91-10020843

Item	INDUCTANCE(10HZ / 0.25V)			LK	DC.RESISTANCE			重疊電流	CORE	MAKER	HI-POT	
	6~4 400uH±5%	8~11 29uH REF	1~3 14.5uH REF		0.5Ω MAX	50mΩ MAX	1~3 250mΩ MAX				6~4 350uH MIN	3.0KV
1	401.90	29.35	14.54	19.47	38.26	156.79	380.00	PC44	XEPEX	PASS	PASS	
2	403.70	29.43	14.61	19.43	38.02	156.82	385.00	PC44	XEPEX	PASS	PASS	
3	402.80	29.42	14.63	19.77	38.07	156.36	385.00	PC44	XEPEX	PASS	PASS	
4	402.90	29.44	14.64	19.92	37.75	156.03	380.00	PC44	XEPEX	PASS	PASS	
5	402.80	29.40	14.65	19.18	38.50	155.49	390.00	PC44	XEPEX	PASS	PASS	
6												
7												
8												
9				short other pin								
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
Min.	401.90	29.35	14.54	19.18	37.75	155.49	380.00					
Max.	465.00	29.44	14.65	19.92	38.50	156.82	390.00					
ΔX	63.10	0.09	0.11	0.74	0.75	1.33	10.00					
樣本平均值	402.78	29.41	14.61	19.55	38.12	156.30	384.00					
樣本標準差	0.65	0.04	0.04	0.29	0.28	0.56	4.18					
USL	440.000	60.000	20.000	45.000	50.000	250.000	450.000					
LSL	360.000	20.000	10.000	5.000	20.000	100.000	350.000					
CSL	400.00	40.00	15.00	25.00	35.00	175.00	400.00					
ΔSL	80.00	40.00	10.00	40.00	30.00	150.00	100.00					
上下限標準差	3.87	0.21	0.26	1.76	1.68	3.34	25.10					
Cp	20.65	187.07	37.94	22.77	17.86	44.85	3.98					
Ca	0.07	0.53	0.08	0.27	0.21	0.25	0.32					
Cpk	19.21	88.00	35.01	16.57	14.15	33.66	2.71					

APPROVED BY: 邱素月

CHECKED BY: 付普芳

PREPARED BY: 付普芳

CONCLUSION:OK

QR-404-04-01

QMFZ2

November 21, 1996

Component-Plastics

HITACHI CHEMICAL CO LTD

CP-J-8600	BK	0.38	94V-0	150	150	150	3
(CP-J-ALPHA-G)		0.75	94V-0	150	150	150	1
		1.50	94V-0	150	150	150	0
		3.20	94V-0	150	150	150	0
CP-J-8800	BN,BK	0.39	94V-0	150	150	150	3
(CP-J-NAP, CP-J-F(N))		0.46	94V-0	150	150	150	0
		0.87	94V-0	150	150	150	0
		1.64	94V-0	150	150	150	0
		3.25	94V-0	150	150	150	0

				E42956 (R)			
				(B1-cont. from B card)			
3	—	—	—	3	—	—	—
2	—	—	—	2	—	—	—
2	—	—	—	2	—	—	—
2	4	4	3	2	4	4	3
0	—	—	—	0	—	—	—
0	—	—	—	0	—	—	—
0	—	—	—	0	—	—	—
0	—	—	—	0	—	—	—
0	0	5	3	0	0	5	3

Report: May 14, 1973; January 8, 1987; January 8, 1987; March 7, 1972.

Replaces E42956B1 dated June 14, 1996.

418315008

N7047

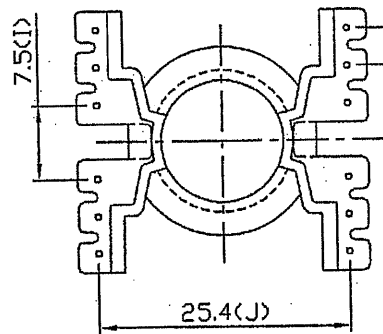
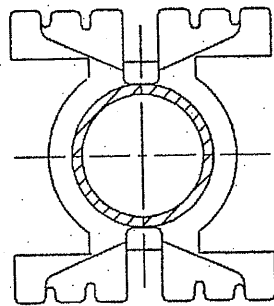
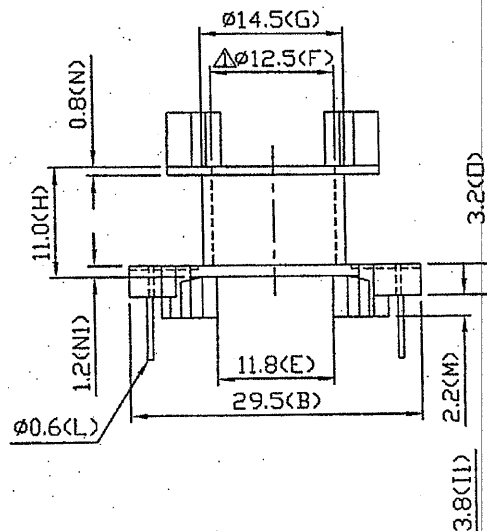
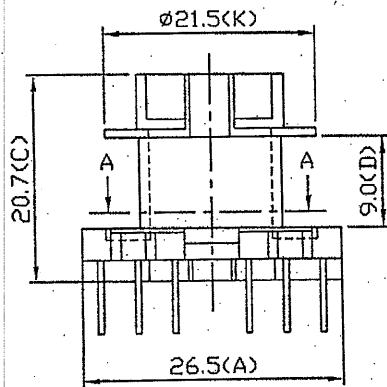
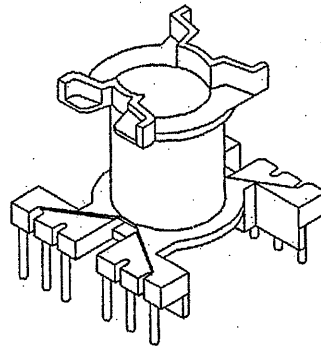
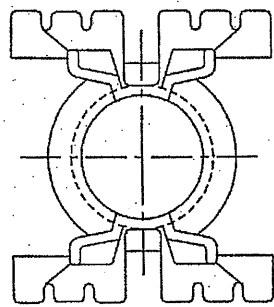
Underwriters Laboratories Inc.®

(Cont. on B2 card)

D11/0137193



PQ2620



SECTION A-A

				TOLERANCE: WHOLE ±0.5 PIN PITCH ±0.1 ROW PITCH ±0.5		DECIMAL X ±0.3 .XX ±0.2		CHECK	陳國昌
1997.12.29	△	φ12.8	φ12.5	SHEET OF		REV.	A	DRAWING	陳宣?
修改日期	修改部份	修改前尺寸	修改後尺寸	TEL (02)2248-3366		MODEL		YW-421-01B	
毅華企業股份有限公司				FAX (02)2240-6919		MATERIAL		PHENOLIC T375J	
YIH-HWA ENTERPRISES CO.,LTD				UNIT m/m		SCALE 1.5 / 1		DATE 1998.12.01	
中和市連城路 222巷4弄2號2樓									

UL Underwriters Laboratories Inc.

PACIFIC ELECTRIC WIRE &
CABLE (SHENZHEN) CO LTD
MR C TIEN
607 BAOLONG INDUSTRIAL ESTATE
LONGGANG
SHENZHEN GUANGDONG CHINA

Your most recent listing is shown below. Please review this information and report any inaccuracies to the UL Engineering staff member who handled your project.
For information on placing an order for UL Listing Cards in a 3 x 5 inch format, please refer to the enclosed ordering information.

OBMW2
Magnet Wire - Component

March 7, 2000

PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD
607 BAOLONG INDUSTRIAL ESTATE LONGGANG, SHENZHEN
GUANGDONG CHINA

E201757

ULI D55							
LEW/C							
VEW/L							
PEW/H							

Coating Type	ANSI Type
BC	11
Polyurethane	130
Polyester	155°C
Modified Polyester	160
	MW5-C
	MW50-C

Marking: Company name, material designation or marked designation on package of part, and Recognition Component Mark.

See General Information Preceding These Recognitions.
For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

OBMW2

June 12, 1999

Magnet Wire - Component

DIFA WIRE & CABLE CO LTD

XIA LI LANG VILLAGE BU JI TOWN, SHENZHEN

GUANGDONG CHINA

E177138

Mil Dwg	Coating Type	ANSI Type	TI
✓ UEW	BC Polyurethane	—	130
PEW	Polyester	MW 5-C	155

Marking: Company name and material designation.

See General Information Preceding These Recognitions
for use only in equipment where the acceptability of the combination is determined by
Underwriters Laboratories Inc.

7/13/1999

Underwriters Laboratories Inc.

Card 1 of 1

OBMW2

January 30, 1997

Component - Magnet Wire

E84201 (S)

(A card)

TA YA ELECTRIC WIRE & CABLE CO LTD
249 CHUNG SHAN RD KUAN MIAO HSIANG, TAINAN HSIEN
71802 TAIWAN

Mil Dsg	BC	Coating Type	TC	ANSI Typ	TI
Magnet wire coatings.					
THF2-U105		Polyurethane	---	---	105
THS4-U130		Polyurethane	---	MW 75	130
THB5-E1180L		Modified Polyester	---	MW 30	180
THFN-216		Polyurethane	Nylon	MW 28-C	130
THLI-E155S		Modified Polyester	---	---	155
TYXH-E155		Modified Polyester	---	MW 5-C	155
TYPU-130		Polyurethane	---	MW 75C	130
TYEA-I050		Polyester-imide	---	MW 77C	180
TY1700-U155		Polyurethane	---	---	155

Reports: July 14, 1983; July 14, 1983; July 14, 1983; June 2, 1986; July 14, 1983; July 14, 1983;
July 15, 1994; October 26, 1994; February 10, 1997.

Replaces E84201A dated November 22, 1994.

H3108

Underwriters Laboratories Inc.®

(Cont. on B card)
D11/0097791

697371001

OBJ12

April 5, 2000

Special Transformer Winding Wire - Component
FURUKAWA ELECTRIC CO LTD

E206440

HIRATSUKA MAGNET WIRE WORKS 5-1-3 HIGASHI YAHATA
HIRATSUKA-SHI, KANAGAWA 254-0016 JAPAN

Cat no: SX-E, basic insulation rated 105° C, working voltage 354 Vdc or Vp.
Cat nos: TEX-E, TEX-EA, reinforced insulation rated 105° C, working voltage of up to 1000 Vrms.
Cat no: TEX-ELZ, reinforced insulation rated 105° C, working voltage of up to 1000 Vrms.
Cat no: TEX-ECEW3, reinforced insulation rated 105° C, working voltage of up to 1000 Vrms.
Cat no: TEX-E, reinforced insulation rated 105° C, working voltage of up to 1000 Vrms.
Marking: Company name and material designation on package, reel or on tag attached to the end of the wire and Recognized Component Mark.

See General Information Preceding These Recognitions

5/5/2000

Underwriters Laboratories Inc.

Card 1 of 2

OBJ12

April 5, 2000

Special Transformer Winding Wire - Component
FURUKAWA ELECTRIC CO LTD

E206440

For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

光緒電子股份有限公司
Altra Electric Corporation
TEL: (02)0522-0966 FAX: (02)0522-1890

5/5/2000

Underwriters Laboratories Inc.

Card 2 of 2

OANZ2

July 28, 2009

Insulating Tape - Component

MINNESOTA MINING & MFG CO
ELECTRICAL PRODUCTS DIV 3M AUSTIN CENTER 6801 RIVER
PLACE BLVD, AUSTIN TX 78726

E17365

Flame retardant polyester film/epoxy resin composite insulating tape, No. 1(a), for use at temperatures not exceeding 130 C.
Flame retardant polyester nonwoven/epoxy resin composite insulating tape, No. 10, for use at temperatures not exceeding 150 C (a).
Flame retardant polyester film/epoxy resin composite insulating tape, No. Super 10(a), for use at temperatures not exceeding 155 C.
Flame retardant polyester nonwoven/epoxy resin composite insulating tape, No. 20+ (a), for use at temperatures not exceeding 150 C.
Flame retardant polyester film/epoxy resin composite insulating tape, No. Super 20(a), for use at temperatures not exceeding 155 C.
Polyester film/nonwoven composite insulating tape, Nos. MR94, MR940(c), for use at temperatures not exceeding 130 C.
Polyester film/nonwoven composite insulating tape, No. 44(a), 44D(a), 44-1B, Mill(a), 44-F(a), 44-T(a), for use at temperatures not exceeding 130 C.
Polyester film/mat composite insulating tape, No. 55, for use at temperatures not exceeding 130 C.
Polyester film insulating tapes, Nos. 5, 54(a), 56(a), 75, 1318-1(a), 1318-2(a), 1318 clear (b)(a), 1318, MW (#)(b) for use at temperatures not exceeding 130 C.
Polyester film insulating tape, No. 1169, for use at temperatures not exceeding 130 C.
Polyester film insulating tape, Nos. 57(a), 58(a), 1291, for use at temperatures not exceeding 130 C.
Polyester film insulating tape, No. 74(a) for use at temperatures not exceeding 130 C.
Flame retardant polyester film insulating tape, Nos. 1298(b), 1298CR, 1350-1(b), 1350-2(b), 1350CR-1, 1350CR-2, 1350F-1(b), 1350F-2(b), for use at temperatures not exceeding 130 C.
Flame retardant polyester film insulating tape, Nos. 1350T-1(bb), 1350T-2, 1350T-3(bb), for use at temperatures not exceeding 130 C.
Flame retardant polyethylene terephthalate film tape, for use as reinforced insulation at temperatures not exceeding 130°C (bb).
Flame retardant polyimide film tape, Nos. 92, 1206.
Glass cloth insulating tape, No. 27(a), for use at temperatures not exceeding 150 C.
Glass cloth insulating tape, No. 79, for use at temperatures not exceeding 150 C.
Glass cloth insulating tape, No. 27U, for use at temperatures not exceeding 130 C.
Glass cloth insulating tape, No. 90, for use at temperatures not exceeding 155 C.
Flame retardant glass cloth insulating tape, No. 63(a), for use at temperatures not exceeding 200 C.
Flame retardant acetate cloth tape, No. 1554.
Cotton cloth insulating tape, No. 29, for use at temperatures not exceeding 105 C.
Glass filament reinforced polyester film insulating tape, No. 46, for use at temperatures not exceeding 130 C.
Glass filament reinforced polyester film insulating tape, Nos. 1339, for use at temperatures not exceeding 130 C.
Glass filament reinforced polyester film insulating tape, No. 1312(a), for use at temperatures not exceeding 130 C.
Polyester filament reinforced polyester film insulating tape, No. 66R, for use at temperatures not exceeding 105 C.
Flame retardant polyvinyl chloride film insulating tape, No. 66R, for use at temperatures not exceeding 105 C.
Flame retardant polyvinyl chloride film nonadhesive insulating tape, Nos. 2585, for use at temperatures not exceeding 105 C.
Ethylene propylene rubber non-adhesive insulating tape, No. 130C, for use at temperatures not exceeding 105 C.
Flame retardant polytetrafluoroethylene (PTFE) film tape, Nos. 60, 61.
Flame retardant polytetrafluoroethylene (PTFE) film tape, Nos. 62, 63.
Flame retardant aluminum foil tape, Nos. 49, 1267.
Flame retardant aluminum foil tape, Nos. 1170, 1171.
Flame retardant copper foil tape, Nos. 1181, 1182, 1183.

TUBE - TEFLON

E64007 (M)

ZEUS INDUSTRIAL PRODUCTS INC
48 ORLANDO DR PO BOX 298, RARITAN NJ 08869

Cal. No.	Max Voltage	Max Temp, °C	Col Recognized	Max Temp Rated Oil Resistance, °C	VW-1 Rated #
Polytetrafluoroethylene (PTFE).					
TFE-LW-150	150	200	Any	—	Yes
TFE-TW-300	300	200	Any	—	Yes
TFE-SW-600	600	200	Any	—	Yes
Fluorinated ethylene propylene (FEP).					
FEP-TW-300	300	200	Any	—	Yes
FEP-SW-600	600	200	Any	—	Yes

Cal. No.	Max Oper Temp	Shrinkdown Class	Col Recognized	Max Temp Rated Oil Resistance, °C	VW-1 Rated #
Heat shrinkable polytetrafluoroethylene (PTFE).					
4:1	300	I	Any	—	Yes
2:1	300	II	Any	—	Yes
Heat shrinkable fluorinated ethylene propylene (FEP).					
1.6:1	300	II	Any	—	—
1.3:1	150	II	Any	—	—

*Tubing is considered to comply with the optional oil resistant requirements only if it is so marked.

TOSHIBA

TOSHIBA CHEMICAL CORPORATION

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 3-3-9, 3-CHOME, SHIMBASHI,
 MINATO-KU, TOKYO 105-0004, JAPAN
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TOSHIBA CHEMICAL CORP
 HANKYU EXPRESS BLDG 3-3-9 SHIMBASHI
 MINATO-KU, TOKYO 105-0004 JAPAN

E83702

Varnish Sig	Varnish Test Method	6C	Magnet Wire Type 7C	ANEE	Varnish Temp Class, C
TVB-2122	Twisted pair	Polyester	—	MW5	155
	Helical coil	Polyester	—	MW6	155
TVB-2148	Twisted pair	Polyester	—	MW5	155
	Helical coil	Polyester	—	MW6	155
TVB-2166	Twisted pair	Polyester	Polyamide	MW24	180
	Helical coil	Polyester	Polyamide	MW24	180
TVB-2166	Twisted pair	Polyester	Polyamide- imide	MW35	180
	Helical coil	Polyester	Polyamide- imide	MW35	200
TVB-2158	Twisted pair	Polyester	Polyamide- imide	MW35	200
	Helical coil	Polyester	Polyamide- imide	MW35	200
TVB-2176	Twisted pair	Polyester	—	MW6	180
	Helical coil	Polyester	—	MW5	180
TVB-2178	Twisted pair	Polyester	Polyamide- imide	MW35	220
	Helical coil	Polyester	Polyamide- imide	MW35	220
✓ TVB-2180T↔	Twisted pair	Polyester	—	MW5	155
	Helical coil	Polyester	—	MW6	155
TVB-2190	Twisted pair	Polyester	Polyamide- imide	MW35	155
	Helical coil	Polyester	Polyamide- imide	MW35	155
TVB-2190D	Twisted pair	Polyester	—	MW5	155
	Helical coil	Polyester	—	MW6	155
TVB-2191K	Twisted pair	Polyester	—	MW5	155
	Helical coil	Polyester	—	MW6	155
TVB-2319	Twisted pair	Polyester	Polyamide	MW24	180
	Helical pair	Polyester	Polyamide	MW24	180
TVB-2319	Twisted pair	Polyester	Polyamide- imide	MW35	200
	Helical coil	Polyester	Polyamide- imide	MW35	200

↔ May be followed by optional suffix.

Marking: Company name and varnish designation on shipping container.