₩₩ 華興變壓器制造廠有限公司 WAH HING TRANSFORMER MFY. LTD.

香港九龙官塘兴业街 15-17 号中美中心 A 座 12-13 楼 12&13/F, Blk. A, Chung Mei Centre, 15-17 Hing Yip St., Kwun Tong, Kowloon, Hong Kong Tel: 852-2341 2297 Fax: 852-2341 5941 E-mail: mkt@wahhing.com.hk

SPECIFICATION FOR APPROVAL

SILCII	CHION I ON III	THO VIII
Customer: Wah Hing Tr	ransformer Mfy. Ltd.	
Customer P/N:		Customer Rev.:
Customer Model No.:		Customer ID: W050
Wah Hing Model No.: T08667	7A	Wah Hing Rev.: 00
Article: AC POWER TR	RANSFORMER (CLASS B)	
Standard: CE/VDE/EN61:	558-2-6	Safety No.:
Catalog No.: V42AJ-15DBP7	7	Date: 2007-12-05
Remarks:		
Please note items listed i	in page.2 that requires your	consent for deviation.
THE	THY	THP
Eng. Dept.	Eng. Dept.	Eng. Dept.
曹强彦	蒲祖玲	李建华
Designed/Maker	Checked by	Approved by
Please evaluate the sample	s, sign this approval sheet d	and return to WAH HING
Approved		
Rejected		
Conditional Approved		
Comments:		
Comments.		
Customer Approved b	y:	
Customer Approved b		
Customer Approved b	Signature & Date	

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Deviation and History

Please note items listed below does not meet your specifications and requires your consent for deviation:

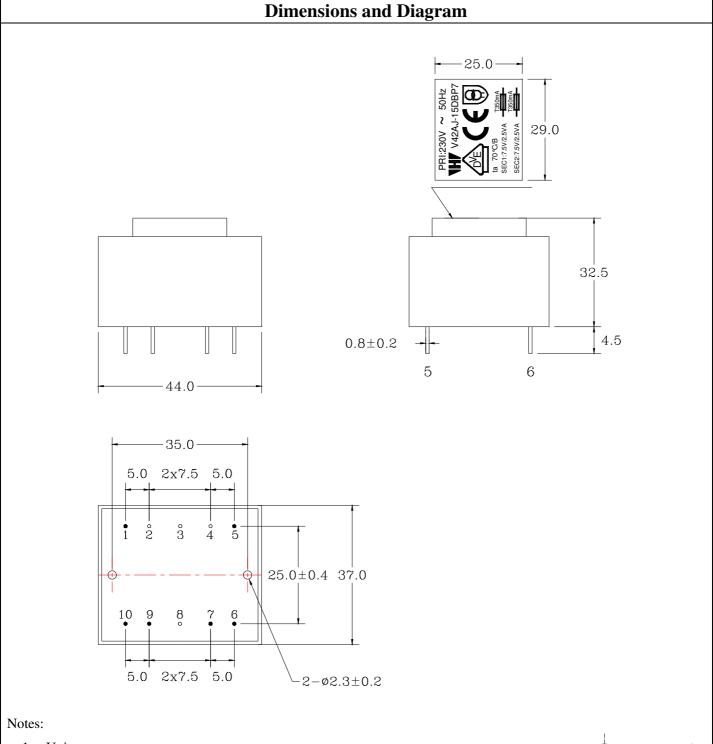
Item	Customer specification	Suggestion specification
1		
2		
3		
4		

Remarks:

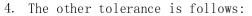
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	00	Initial Issue		Cao	2007-05-03
Item	Rev	Description		Sign	Date
		Histor	ry		
Custo	mer P/N	:	Wah Hing Model No.:	T08667A	

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- 1. Unit: mm
- 2. Marking: pad-print on top of case, letter in white, background in black
- 3. Pins exist at position: 1, 5, 6, 7, 9, 10.

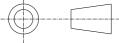


x. ± 1.5

 ± 1.0

 $.xx \pm 0.50$





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WAH HING TRANSFORMER MFY. LTD. PRODUCT SPECIFICATION

Electrical Characteristics

Circuit diagram:

Schematic Diagram

Remarks:

Non-short circuit proof type transformer on external 350mA current Fuse must be connected in series to the secondary.

Tabel-1: Secondary loaded voltage:

Primary input			S1(10-9) with 350 current fuse	S2(7-6) with 350 current fuse	S 3	S4	S5
230Vac	Rated	Load	333mA ac	333mA ac			
50 Hz	load	Standard	7.5Vac	7.5Vac			
230Vac	1	No Load	0 A	0 A			
50Hz	1	Standard	9.2Vac	9.2Vac			
253Vac	2	Load					
50 Hz	2	Standard					
207Vac	3	Load					
50 Hz	3	Standard					
	4	Load					
	4	Standard					

Tabel-1 notes:

1. If not specified, the secondary voltage tolerance is $\pm 5\%$.

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WAH HING TRANSFORMER MFY. LTD. PRODUCT SPECIFICATION

Electrical Characteristics

Standard atmospheric conditions:

Unless otherwise specified, the standard range of atmospheric conditions for marking measurements and tests are as follows:

Ambient temperature : $15\,^{\circ}$ C to $35\,^{\circ}$ C Relative humidity : 25% to 85%

If there is doubt about the results, measurement shall be made within the following limits:

Ambient temperature : $20^{\circ}\text{C} \pm 1^{\circ}\text{C}$ Relative humidity : 63% to 67%

Operating temperature range: -10° C to $+70^{\circ}$ C

1	Output voltage and current	✓ Measured in a.c. circuit□ D.C. circuit including rectifyin	g circuit	Refer to Page 4
2	Rated primary voltage	✓ 50Hz□ 60HZ□ Both 50Hz and 60Hz		<u>230</u> V
3	No load current	Input <u>230</u> Vac, <u>50</u> Hz		42 mA or less
4	Stand-by consumption	Input <u>230</u> Vac, <u>50</u> Hz		W or less
5	Secondary voltage			Refer to Page 4
6	Insulation resistance	Apply a voltage of 500V d.c. for 1r Between the primary and core Between the primary and seco		100M $Ω$ or more
7	Dielectric strength	Between primary and secondary: 4.	0KVac for 1min. 2mA	No damage such as Breakdown, etc.
8	Layer dielectric strength	Apply (A) V, 400Hz for 15s to th (A) 460V,	e primary terminal of <u>(B)</u> V. (B) <u>230</u> V	No damage such as Breakdown, etc.
9	Primary direct Current resistance	Between terminals of and		<u></u> Ω
10	Secondary direct Current resistance	Between terminals of and		<u></u> Ω
11	Temperature rise	The voltage of _(A) V shall be approximate (B) V. Measurement shall be made reached. (A) 243.8V, Secondary load conditions: ☐ All at the rated current ☐ The input voltage is increased set. ☐ The rated current is set, with the ☐ Other (Ta=70°C)	e after constant temperature are (B) 230V by 6% after the rated current is	Windings up to:50 K. (by the resistance method) Iron core up to: K. (by the thermometer method)
Cust	omer P/N:		Wah Hing Model No.:	Г08667А

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		Electrical Charac	eteristics	
		The power transformer shall be stored at an ambient temperature of 40°C±2°C with relative humidity	Insulation resistance	$5M \Omega$ or more
12	Damp heat	of 90% to 95% for 48h.Then condensation shall be removed. After which measurement shall be made within 10 min.	Dielectric strength	Clause 7 shall be satisfied. Trip current 5mA
13	Dry heat	The power transformer shall be stored at an ambient temperature of $100^{\circ}\text{C}\pm3^{\circ}\text{C}$ for 6h.	Insulation resistance	5M $Ω$ or more
13	Dry licat	After which measurement shall be made within 10 min.	Dielectric strength	Clause 7 shall be satisfied. Trip current 5mA
14	Abnormal temperature test	☐ 15-day test ☐ Short-circuit and overload test with	1	Windings up to: 175 °C
15	Beat noise (Hum)			28 dB or less
16	Thermo-protector	Primary windings built in / thermal fus	e	
17	Mass			210g (reference)

CONSTRUCTION DIAGRAM AND MATERIAL LIST

1. Internal construction

- (1) Lead wire and winding shall be connected by twisting together.
- (2) Thickness and materials of insulation and also creepage, clearance and thickness of insulation, shall conform to applicable safety standard.

2. Tensile strength of terminals (pins)

A load of 20 N shall be applied in the axial direction. When it is retained for 10±1 seconds, there shall be no loosening or breakdown.

For one not exceeding 2 Kg, the static load same with the self weight shall be applied.

3. Appearance

There shall be no scratches, dents, or distinct blemishes on the body, pin.

5. Fitting strength

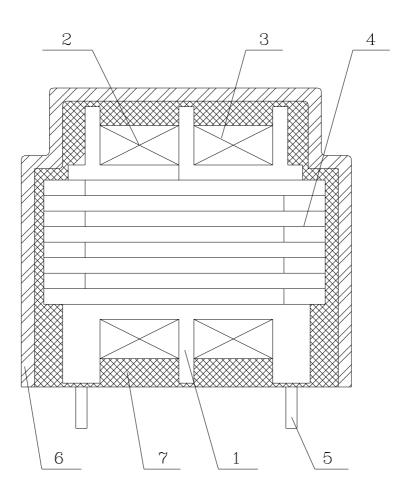
There shall be no damage such as deformation when a static load of 20 N is applied in all directions for 30 s.

Customer P/N:	Wah Hing Model No.:	T08667A

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WAH HING TRANSFORMER MFY. LTD. PRODUCT SPECIFICATION

Construction Diagram



- 1. BOBBIN
- 2. PRIMARY WINDING
- 3. SECONDARY WINDING
- 4. LAMINATION CORE

- 5. PIN
- 6. POTTING BOX
- 7. POTTING MATERIAL

Customer P/N: Wah Hing Model No.: T08667A

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WAH HING TRANSFORMER MFY. LTD. PRODUCT SPECIFICATION

		Materials List		
No.	Description	Material ,Thickness/Turns	Manufacture	Safety No.
1	Dalahin	PETP, FR530 UL94V-0	E.I. Dupont	E41938
1	Bobbin	PET-T102G30, 0.71mm min. UL94V0	Shinkong	E107536
2	Daires and William	Delauration and all annual MW20C and MW25C	Ta win	E152187
2	Primary Winding	Polyurethane enameled copper wire MW28C or MW75C	Pacific-thai	E142108
3	Secondary Winding	Polymethana anamalad cannor wire MW29C or MW75C	Ta win	E152187
3	Secondary winding	Polyurethane enameled copper wire MW28C or MW75C	Pacific-thai	E142108
4	Lamination Core	Silicon sheet steel, EI30, 0.5mm.thickness	Kawasaki	None
5	Pin	Copper alloy, 0.8mm diameter	WELL FORE	None
6	Potting Box	A216V30 , UL94HB	RHQDIA	E44716
7	Potting Material	PU390,UL94V-2	Wevo-chemie gmbh	E108835

2. Please advise if customer have any special requirements.

Otherwise, all materials may be substituted by other equivalent manufacturer.

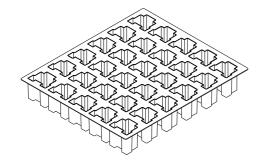
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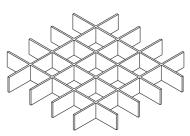
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Packing Diagram

Internal:



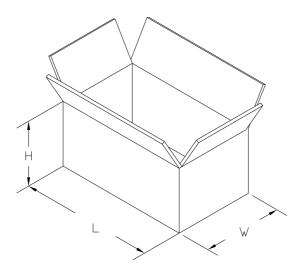


Plastic Package ()

Chamber ($\sqrt{}$)

Other ()

Carton box:



Packing description:

	L	W	Н
Size (cm)	30	25	15
Tolerance	+2/-0	+2/-0	+2/-0
QTY (pcs)		90	
G. W. (Kg)		20	

Remarks:

1. Storage condition:

Temperature: $-20 \sim +60^{\circ}$ C

Relative humidity: 30% ~ 80%

2. Storage time: 6 months3. Antistatic: no requirement

4. Please advise if any comment on packing information, Otherwise, this information will apply in production.

Customer P/N: Wah Hing Model No.: T08667A

Wahhing Electrical Appliance Co., Ltd. Wah Hing Transformer Mfy, Ltd.

ELECTRICAL TESTING DATA SHEET

[MSF No: 07 1/0 83]

Table No: ER004-03 of Page

Condition: Input: 29°	Vac; 50	Hz							Room	Room Temperature:	ture:	ာ့
DESCRIPTION	SPEC	Pin No.	П	2	3	4	5	9	7	8	6	10
Pri Exec Io(mA)(MAX)			5.02	6.11	8-1-	٥٠/٢	<u>ż</u>					
Pri DCR(Ω)			1.819		4.[19	617.7	L.519					
No load lass (w)			0.1	1.07	10.1	0-1	101					
Sec Vo (VAC)	870 45%		92.6	92.6	92.6	9.26	22.5					
			95.6	9.25	9.26	9.26	7.26					
VS AC 333mA	751 15%		$\lceil \cdot \rceil$	7.79	7.81	28.7	7.80					
			7.77	7.79	18.7	7.79	18.2					
Hi-Pot Test:												
Primary-Secondary & Core	775KV / 1min		7		1							T
Secondary-Core												
Insulation Resistance	≥100MΩ		7		\	\						
Hi-Pot Test Equipment:	PM-106	IMWV58		99AMWI	99/	gpuſ	Jndgement:	Zc	OK		NG	
Customer: Wahhing	The state of the s	Cust.P/N:				Rev No.:		(as		Chg No.:	COS	
Wathing Model No.: 70866713	671	Tested By: たん	10 Per 10	m		Approved By.	d By.:	1		Date:	1.5 (3%	
			П					/		11		

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ELECTRICAL TESTING DATA SHEET

[MSF No: 1710009

Table No:ER004-03

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Page

10 1 Date: 03 - NOV - 200 Room Temperature: 30.3 Chg No.: COO $\sqrt{\log}$ Approved By: > 82,67 Judgement: Rev No.: 608 1.08 608 1MWV66 83.88 Tested By: M. W. 9.26 9.26 7.78 7.78 1MWV58 Pin No. Cust. P/N: 6 Primary - Secondary & Core 3,75 kV /Ac /min Customer: I Vent Solutions Limited $\gg 100 \text{M}\Omega$ PM-106 20 < 42 mA 9.2V ± 5% 7.5V ± 5% SPEC 7.57 ± 5% 9.2V±5% Vac; Wahhing Model No.: 108667A VS AC 330.0 m.A 330.0m/b No load Lass cws YO CVAC) Hi-Pot Test Equipment: Pri Exec Io(mA) (MAX) V2 LAC> Condition: Input: 230 DESCRIPTION Secondary - Core Insulation Resistance VS AC Pri DCR(Q) Hi-Pot Test: