

## 유해물질에 관한 보증서

1. 당사는 환경유해물질에 관한 국제규제에 대응하여 당사 제품의 환경친화성을 보증하기 위해 본 보증서를 제출합니다.
2. 당사는 고객(업체)에서 제시하는 "녹색구매 관리규정"을 철저히 준수하고 유해 물질을 관리하겠습니다.
3. 당사는 귀사에 공급하는 부품 관련하여 당사가 제출한 환경유해물질의 정보 (금지물질 함유에 대한 분석결과 빈칸 기록) 등이 정확한 정보임을 보증합니다.

	카드뮴	납	수은	육가크롬	PBB	PBDE
측정 결과	0.5	25	0.05	6.3	불검출	불검출
측정 일자	2006.04.12	2006.04.12	2006.04.12	2006.04.12		
비 고	-측정장비는 ICP로 지정하오니 타 장비로는 측정 하지 않도록 유의 바랍니다. -측정일자는 측정 완료일 경우 완료 일자를 기재해 주시기 바랍니다.					

4. 당사는 귀사 환경기준의 미 준수 또는 당사가 제공한 환경유해물질 정보의 불일치, 오류 등으로 인하여 귀사와 제3자간에 환경유해물질 관련 분쟁, 소송 등이 발생하는 경우 이로 인하여 귀사에 발생하는 어떠한 손해나 손실에 대하여 책임질 것을 보증합니다.
5. 당사에 부품 승인을 위해 귀사에서 승인원 제출 시 '유해물질에 관한 보증서'를 필히 첨부바라며 보증서가 첨부 안될 경우는 부품 승인을 할 수가 없습니다.

보증기한 : 2007년 04월 12일 ~ 2008년 04월 11일  
(보증기한은 1년이다. 단, 계약기간 만료기한 이전 양사가 별도 의사표시를 하지 않는 경우 자동 연장되는 것으로 간주한다.)

2007. 04. 12.

주 소 : 경기도 남양주시 삼패동 256

회 사 명 : (주)썬테크

대표이사 : 김 규 혁

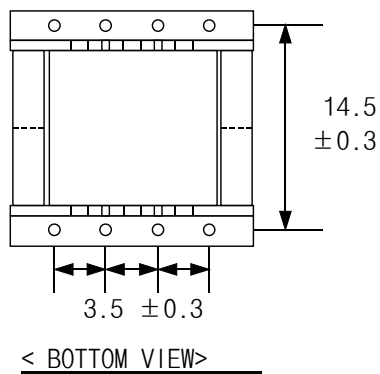
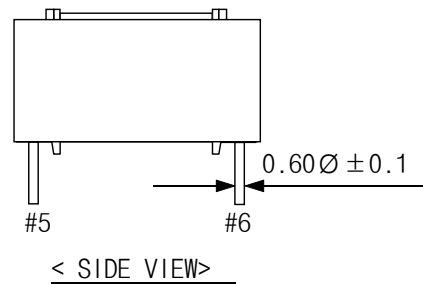
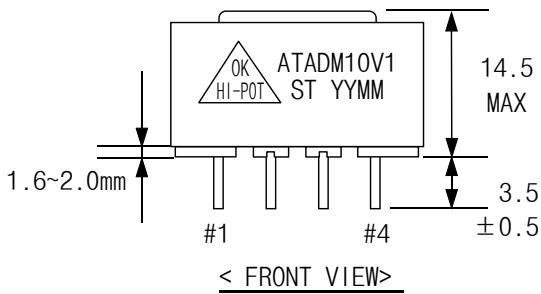
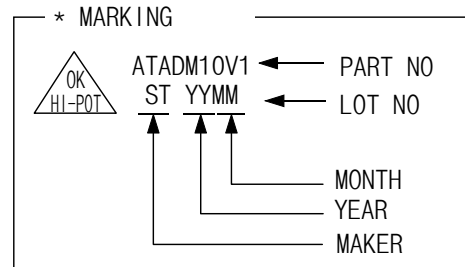
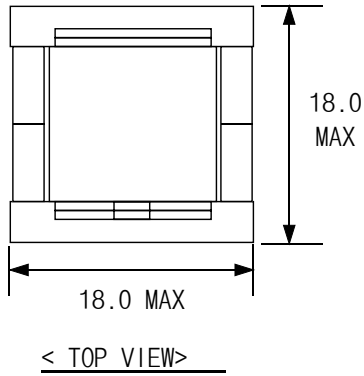


**ATADIOVI**  
**Transformer SPEC**

**Transformer 변경이력**

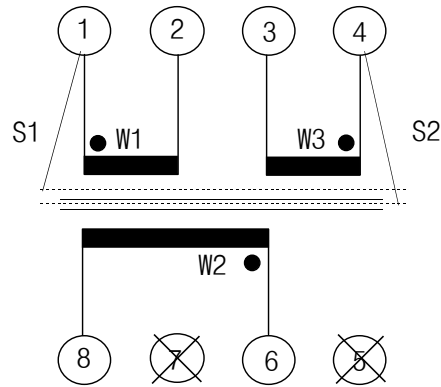
NO	적용시기	개 정 내 용	비 고
01	2007.04.11.	■ 최초 신규 발행. Rev, 1.0	

1. APPEARANCE & DIMENSION (UNIT:m/m)



- \* BOBBIN 가이드 : 1.8mm 이상
- \* GAP : CENTER AIR GAP( ≒ 0.16mm)

2. SCHEMATIC DIAGRAM



WINDING	BOTTOM VIEW	C.C.W
N.C PIN		
REMOVE PIN	#5,7	
CUT PIN		

3. WINDING SPECIFICATION

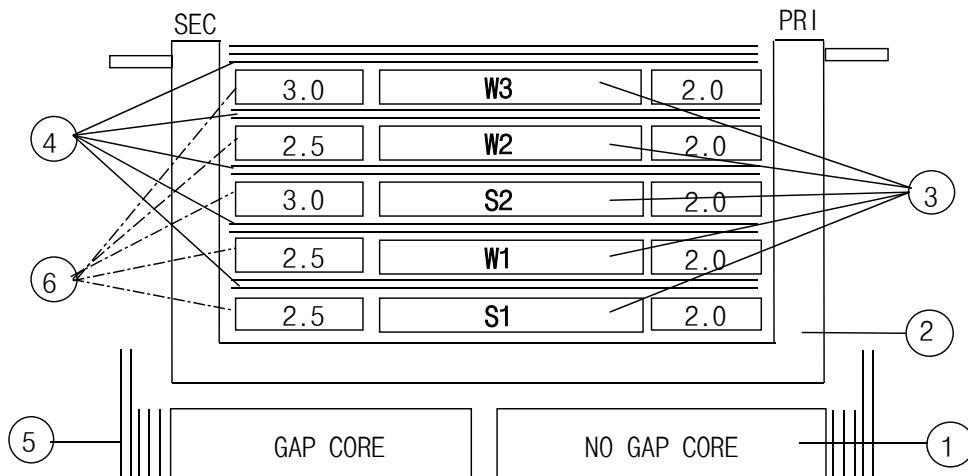
NO	TERMINAL (S - F)		W I R E	TURNS	WINDING METHOD	INSULATION			BARRIER		
	S	F				MATERIAL	T/W	Ts	PRI	SEC	Ts
S1	1	-	2UEW 0.16Øx3#	9 t (REF)	SOLENOID (C.C.W)	P.S TAPE	0.025/9.5	2	0.25T 2.0mm, 2.5mm	1	
W1	1	2	2UEW 0.15Ø	110 t	SOLENOID (C.C.W)	P.S TAPE	0.025/9.5	2	0.25T 2.0mm, 2.5mm	3	
S2	4	-	2UEW 0.16Øx5#	4 t (REF)	SOLENOID (C.W)	P.S TAPE	0.025/9.5	2	0.25T 2.0mm, 3.0mm	1	
W2	6	8	TEX 0.35Ø	8 t	SOLENOID (C.C.W)	P.S TAPE	0.025/9.5	2	0.25T 2.0mm, 2.5mm	2	
W3	4	3	2UEW 0.15Øx2#	14 t	SOLENOID (C.C.W)	P.S TAPE	0.025/9.5	3	0.25T 2.0mm, 3.0mm	1	
CORE FIXING TAPE						P.S TAPE	0.025/4.5 (YELLOW)	3	-		
OUT SIDE INSULATION TAPE						P.S TAPE	0.025/9.5 (YELLOW)	2			

※ S2차 역권선      W1,W2,W3,S1는 1차측(1~4pin)권선기방향 삽입(c.c.w)  
 S2는 2차측(5~8pin)권선기방향 삽입(c.w)

#### 4. ELECTRICAL CHARACTERISTIC

NO.	ITEM	TERMINAL	SPECIFICATION	REMARKS
1	INDUCTANCE	1 - 2	2.5 mH $\pm$ 8%	LCR-METER HP-4284A <b>at 100KHz, 1Vrms</b>
2	LEAKAGE (SEC. ALL SHORT)	1 - 2	90 $\mu$ H MAX	
3	DC RESISTANCE	1 - 2	3.9 $\Omega$ MAX	WHEATSTONE BRIDGE TYPE 2755, TYPE 3220
4	INSULATION RESISTANCE	COIL - COIL COIL - CORE	100M ohm MIN. AT DC 500V	TOS-8850
5	WITHSTANDING VOLTAGE	PRI. - SEC.	AC3.75KV/1MIN	W/I AUTO TESTER (TOS-8850) CUT OFF CURRENT : 10mA
		CORE - PRI.	AC1.875KV/1MIN	
		CORE - SEC.	AC1.875KV/1MIN	

※ TEST CONDITION : TEMPERATURE 20°C  $\pm$  15°C , HUMIDITY 65%  $\pm$  20%



**6. MATERIAL LIST**

NO	ITEM	MATERIALS & DIMENSIONS	MANUFACTURER	REMARK
1	C O R E	EE 16 x 16mm PM-7	ISU CERAMICS CO., LTD.	
		EE 16 x 16mm FP4	CHANGSHU XINLI MAGNETIC INDUSTRIALCO, .LTD.	
		EE 16 x 16mm R2K3D	CHENGDU HENGLI MAGNETIC MATERIALS CO, .LTD.	
		EE 16 x 16mm PC40	ZHANGJIAGANG CITY QUNLI ELECTRONIC PRODUCE CO, .LTD.	
2	BOBBIN	EE 16 x 16mm (H-TYPE) PHENOL (94V - 0) BOBBIN GIDE(1.6-2.0mm)	BAKELITE GMBH (PF-2736)	E61040M
3	W I R E	UEW 0.15Ø, UEW 0.16Ø	DONG SUH ELECTRONICS CO., LTD.	E210918
		TEX-E 0.35Ø	YOUNG CHANG SILICONE CO., LTD DAH JIN TECHNOLOGY CO., LTD.	E242198 E236542
4	INSULATION TAPE	POLYESTER TAPE 0.025t x 9.5mm(YELLOW)	DUCK SUNG HITECH CO., LTD	E105147
5	CORE FIXING TAPE	POLYESTER TAPE 0.025t x 4.5mm(YELLOW) 0.025t x 9.5mm(YELLOW)	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	E165111
6	BARRIER TAPE	P.N.W TAPE 0.25t x 2.0mm 0.25t x 2.5mm	TAE HWA INDUSTRIAL CO., LTD. DUCK SUNG HITECH CO., LTD	E92677S E105147
7	IMPREGNATION	EPOXY SR-337, KH-337		

## \* BOBBIN

**BAKELITE AG** **E61040**  
 POSTFACH 7154  
 58609  
 ISERLOHN-LETMATHE, GERMANY

Material Dsg	Color	Min. Thk mm	Flame Class	H		R T I			H	D	
				W	A	Elec	Mech	Imp	Str	V	4
				l	l				R	5	l

Phenolic (PF), "Rutaform, Bakelite", furnished as pellets, powder, granular material.

PF 2736(a)(b)	BK	0.46	V-0	-	-	150	150	150	0	5	3
	ALL	0.81	V-1	0	2	150	150	150			
	NC, GN, BK	0.81	V-0	0	2	150	150	150			
	ALL	1.5	V-0	0	2	150	150	150			
		3	V-0	0	2	150	150	150			

(a) - Optional Suffix "H".

(b) - Grade designation may be followed by a four digit number representing color, P or S indicating type of molding, a single digit representing slight color variation.

Marking: Company name or tradename "BAKELITE", "RUTAFORM" and material designation on container, wrapper or finished part.

## \* WIRE

**DONG SUH ELECTRONICS CO LTD** **E210918**  
 55-1 BUNSU 3-RI  
 KWANGTAN-MYUN  
 PAJU  
 KYONGGI-DO 413-850, KOREA

Mtl Dsg	Mark Dsg	Coat Type		ANSI Type	Temp Class
		BC	OC		
DSUEW-100	-1	Polyurethane	—	MW75C	130
UEW	-1	Polyurethane	None	MW79	155
				MW75	130(2)
PEW	-1	Polyester	None	MW30	180
				MW5	155(2)

(1)-Marked designations are the same as the material designations.

Marking: Company name, material designation or marked designation on package or reel, and Recognized Component Mark.



\* INSULATION

**DUCK SUNG HITECH CO LTD**  
DAESUNG BLDG  
677 JAYANG-DONG  
KWANG JIN-KU  
SEOUL 133-190, KOREA

**E105147**

Polyester film insulating tape, acrylic adhesive, Cat. No. DTS-204, rated 130 C.  
Acetate cloth insulating tape, acrylic adhesive, Cat. No. 231\*, rated 105 C.  
Glass cloth insulating tape, rubber adhesive, Cat. No. 220-B, rated 130 C.  
Glass cloth insulating tape, silicone adhesive, Cat. No. 221H\*, rated 180 C.  
Acetate cloth insulating tape, rubber adhesive, Cat. No. DTS-230, rated 105 C.  
Nomex (Aramid fiber) film insulating tape with non-woven polyester fiber reinforcement, acrylic adhesive, Cat. No. DTS-241\*, rated 130 C.  
Polyester film insulating tape, acrylic adhesive, Cat. No. DTS-280\*, rated 130 C.  
PET (polyester) film insulating tape, acrylic adhesive, Cat. No. DTS -204A#, rated 130 C.  
PET (polyester) film insulating tape, synthetic rubber adhesive, Cat. No. DTS -204R %, rated 130 C.  
PET(polyester) film insulated tape, acrylic adhesive, Cat. No. DTS-204F\*#, rated 130 C.

Marking: Company name or trademark or file number "E105147" and catalog designation printed on carton, wrapper or core.

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

**E165111**

Nonwoven cloth/polyethylene terephthalate film tape, Cat. No. WF with suffixes, rated 130 C\*(a).  
Polyethylene terephthalate film tape, Cat. No. CT with suffixes, rated 130 C\*(c) (e) .

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

\*Complies with flame retardant requirements when so marked.

(a)Comparative Tracking Index (CTI)% performance indicates material Group II, PLC=1, CTI equal to or greater than 400 but less than 600 v.

(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.

%The CTI test was conducted per IEC 112 and the assigned level is based on the testing of both film and adhesive sides.

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

\* BARRIER TAPE

**TAE HWA INDUSTRIAL CO LTD**

**E92677**

323-80 GUNHA-RI  
WOULGOT-MYUN  
KIMPO-CITY  
KYUNGGI-DO 415-870, KOREA

Flame retardant fiberglass cloth tape with silicone adhesive , Cat. No. TH-GC012# .

Flame retardant acetate cloth tape with acrylic adhesive , Cat. No. 6701# .

Flame retardant fiberglass cloth tape with acrylic adhesive , Cat. No. H-2715# .

Polyester film tape, Cat. No. H-5673 , rated 130 C.

Nomex insulating tape with silicone adhesive , Cat. No. H-8780+ , rated 180 C .

Flame retardant copper foil tape with conductive acrylic adhesive , Cat. No. E-3338#.

Flame retardant aluminum foil tape with retardant acrylic adhesive , Cat. No. E-4340#.

Flame retardant PET film reinforced with non-woven polypropylene fibers and acrylic adhesive ,  
Cat. No. H-5673N# .

+ -Complies with flame retardant requirements when so marked .

# -Subjected to UL510 flammability tests only .

Marking: Company name or "E92677" and catalog number printed on carton, wrapper and/or core.

\* TEX WIRE

**YOUNG CHANG SILICONE CO LTD**

**E242198**

481-7 GASAN-DONG  
KUMCHUN-GU  
SEOUL 153-803, KOREA

Cat. No. STW-B, Class B, reinforced insulation.

Marking: Company name and material designation on package, reel or on a tag  
attached to the end of the wire, and Recognized Component Mark.

This page and all contents are Copyright © 2004 by Underwriters Laboratories Inc.R

**DAH JIN TECHNOLOGY CO LTD**

**E236542**

330 DAH SHUNG ST  
NAN PAO TSUEN  
KWEI JEN HSIANG  
TAINAN HSIEN, TAIWAN

Cat. No. TLW-B, reinforced insulation, rated 130° C (Class B), 1.0 KV, 18-32 AWG  
(0.20-1.0 mm).

Marking: Company name and material designation on package, reel or on a tag  
attached to the end of the wire, and Recognized Component Mark.