



DATA DISPLAY GROUP

DATA SHEET

GH331A(P1)

Inverter for LG LM220WE4

IN-00-110

Version 0.0

26.03.2009

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TO : Customer

DATE : 2009.03.26

GREEN C&C TECH CO.,LTD
682-1,NEUNG-DONG
HWASUNGCITY,KOREA
TEL : 82-31-233-3620~2
FAX : 82-31-233-3616

DOCUMENTATION FOR APPROVAL

PRODUCT : CCFL BACKLIGHT INVERTER

MODEL NAME : GH331A(P1) (RoHS INVERTER)

GCCT NAME : GCCT331PB (IN-PWM DIMMING)

APPROVAL	CHECKED	WRITTEN

PLEASE RETURN ONE DOCUMENT AFTER APPROVED SIGN.

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GREEN C&C TECH	INVERTER SPECIFICATION (GH331A(P1))	R&D DATE : 2009.03.26
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NO	DATE	REVISION	PAGE

REVISION HISTORY

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GREEN C&C TECH	INVERTER SPECIFICATION (GH331A(P1))	R&D DATE : 2009.03.26
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1. APPLICATION

This Document Specified The Detailed Product Requirements of Inverter
GH331A(P1)

2. SUITABLE LOAD

LCD MODULE : 22" 12LAMP TFT LCD

3. ELECTRICAL CHARACTERISTICS

3-1. Absolute Maximum Ratings

ITEM	SYMBOL	SPEC	UNIT	REMARKS
INPUT VOLTAGE1	Vin1	21.6~26.4	V	
INPUT VOLTAGE2	Vin2	2.4~5.25	V	
OPERATING TEMPERATURE	Top	0~60	℃	
STORAGE TEMPERATURE	Tstg	-30~80	℃	
RELATIVE HUMIDITY	RH	90	%	

3-2. Control Signal

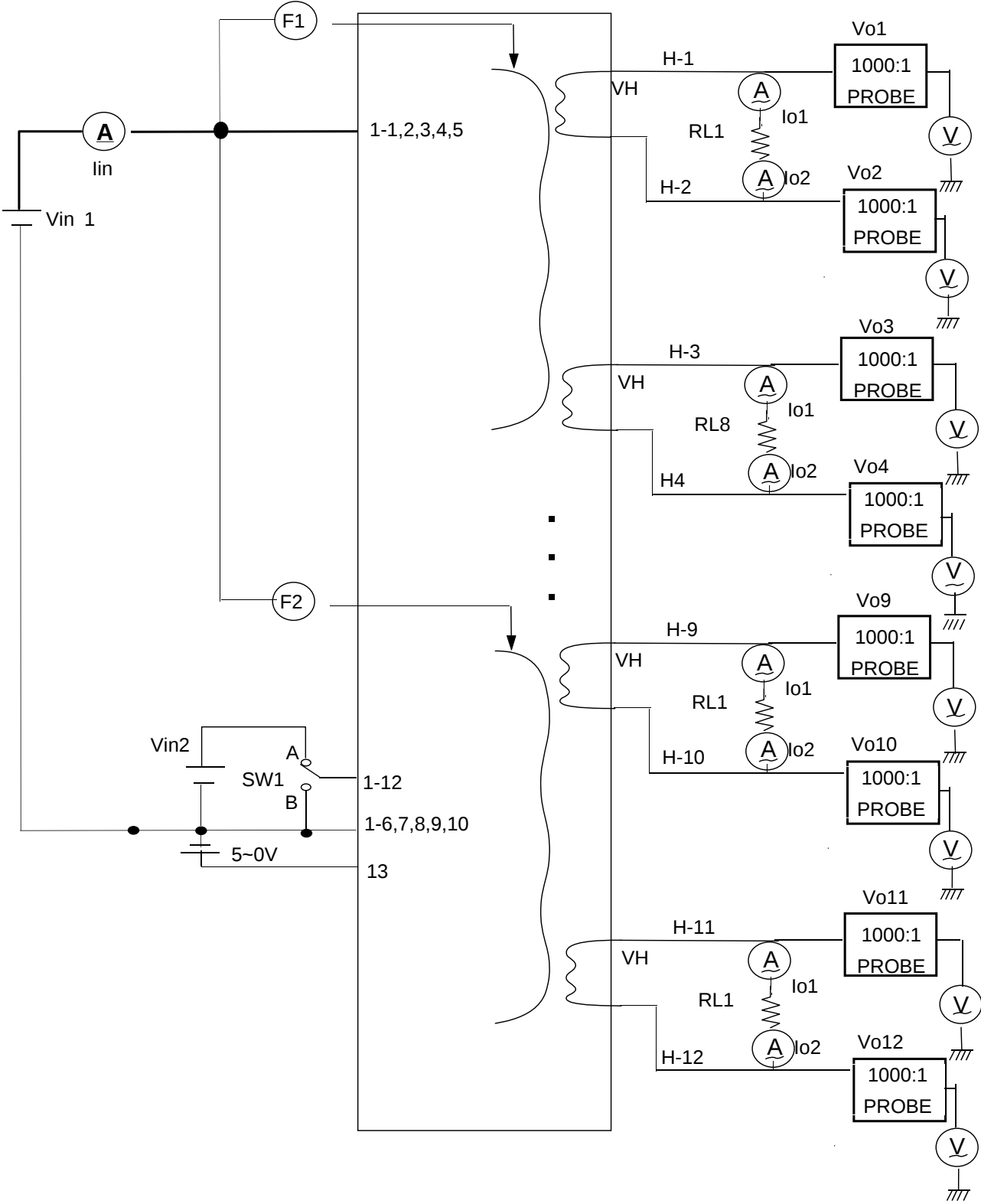
PIN NO.	SYMBOL	STATUS	ACTION	REMARKS
CN1 #12	BKLT_ON	HIGH	LAMP(CCFL)-ON	2.4~5.25V
		LOW	LAMP(CCFL)-OFF	0.8V MAX

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4. Output Characteristics

ITEM	SYMBOL	CONDITION			SPECIFICATION			UNIT
		Vin1(V) (DC-IN)	BRT- ADJ	LAMP	MIN	TYP	MAX	
OUTPUT CURRENT	Io(max)	24	5V	LAMP	5.7	6.2	6.7	mArms
	Io(min)	24	0V	LAMP	1.8	2.3	2.8	
INPUT CURRENT	Iin(1)	24	5V	LAMP	-	-	4.0	ADC
FREQUENCY	F	24	5V	LAMP	53	58	63	KHz
	FPWM	24	0V	LAMP	127.5	-	172.5	Hz
IN-PWM SIGNAL	DIM	24	5V(Max)	LAMP	-	100(MAX)	-	%
			0V(Min)	LAMP	-	20(MIN)	-	%
OPEN VOLTAGE	V	24	5V	∞	1.0	-	2.0	KV
SHUTDOWN TIME	T	24	5V	∞	1.0	-	2.0	SEC

5. TEST CIRCUIT



GREEN C&C TECH	INVERTER SPECIFICATION (GH331A(P1))	R&D DATE : 2009.03.26
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6. INTERFACE

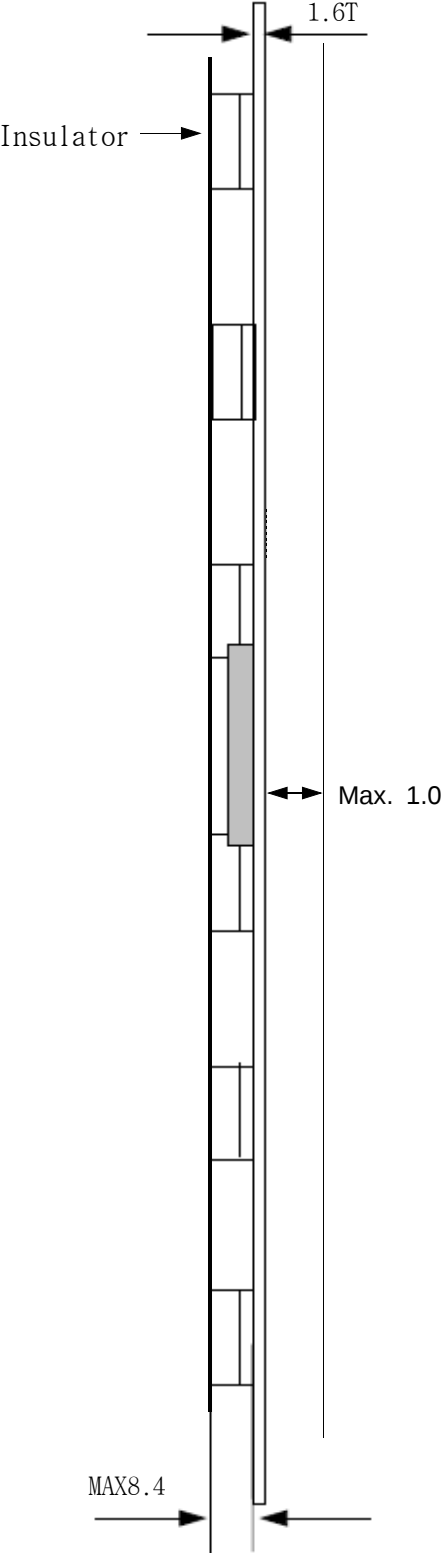
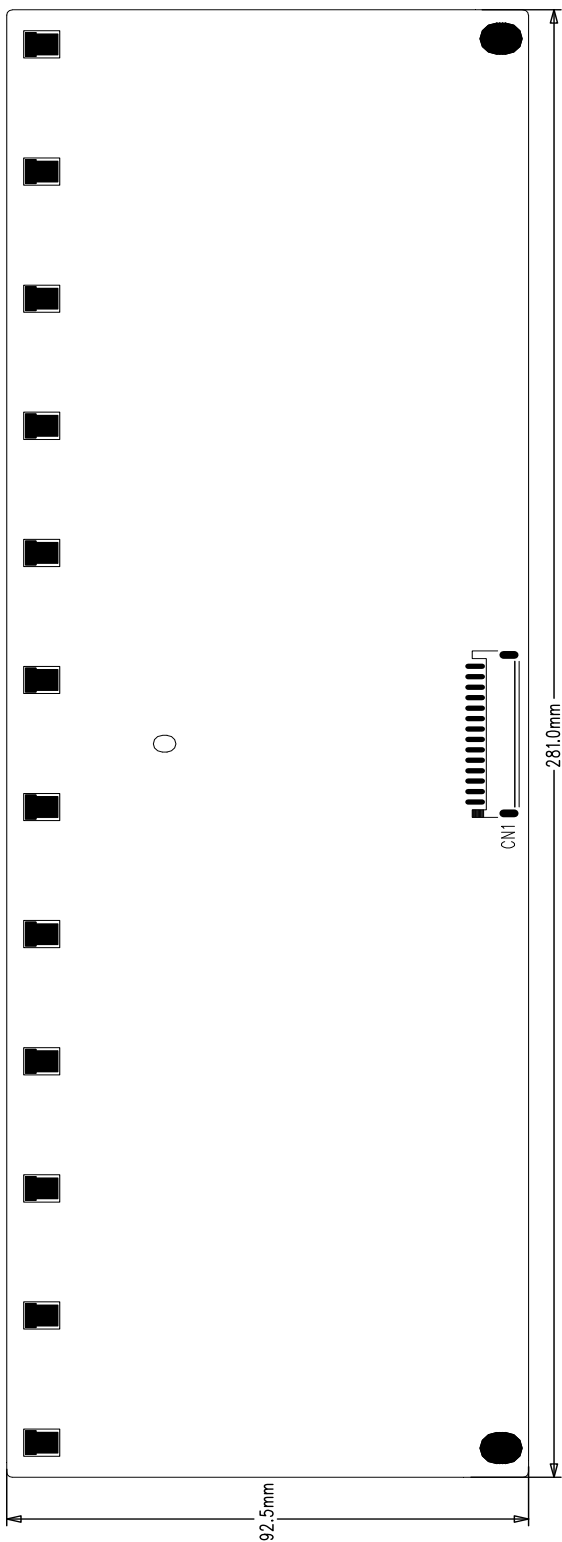
6.1.1 CN1 CONNECTOR : 20022WR-14AML (YEONHO) or equivalent

PIN NO.	SYMBOL	REMARK
1,2,3,4,5	VCC	SupplyVoltage:(21.6V~26.4V).
6,7,8,9,10	GND	Power System Return.
11,14	N.C	N.C
12	ON/OFF	On/Off signal for control inverter on/off
13	DIM	Internal PWM Dimming Control (5~0V)

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7. APPEARANCE (UNIT : mm)

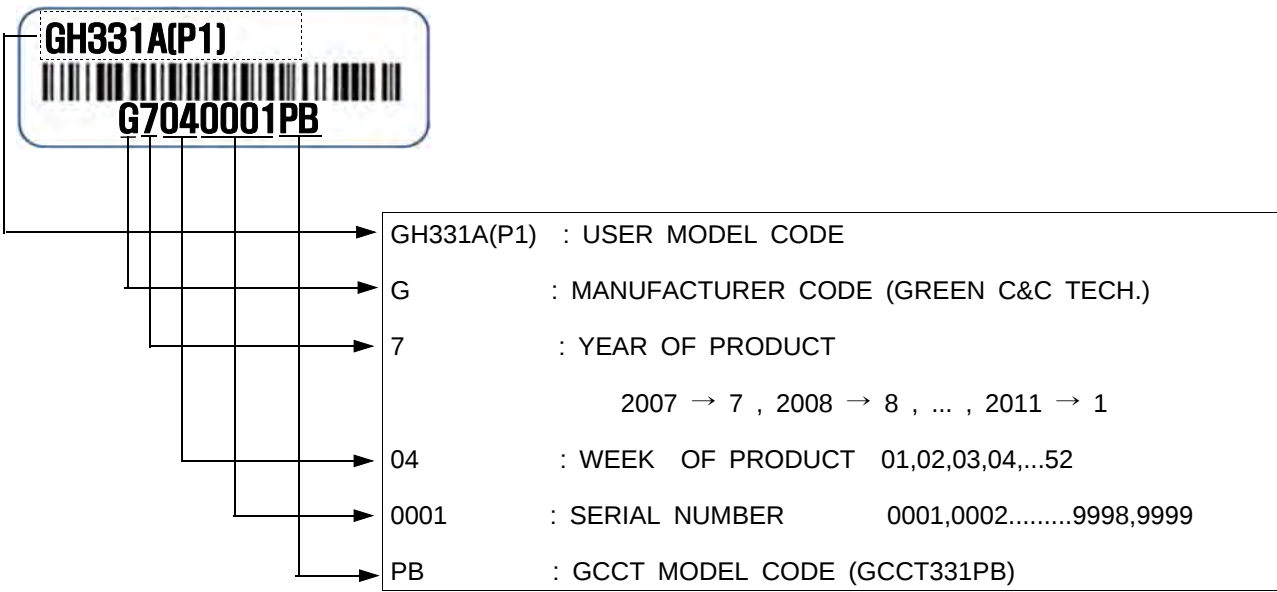
(TOLERANCE: +0.8,-0.2mm)



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8. NOTATION OF LOT NUMBER

MARKING : TOP OF PCB.



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9.PART LIST

SYMBOL	NAME	1st		2nd	
		TYPE NO	MAKER	TYPE NO	MAKER
U1	I.C	BD9893F	ROHM		
U2	I.C	BA10393F	ROHM	KIA393F	KEC
U101,U102,U201 U202,U301,U302	FET	AOD609	AOS	AP4525GEH	APEC
		APM4048ADU4	ANPEC		
Q1	FET	RK7002	ROHM	2N7002	DIODES
		2N7002A	KEC	2N7002	ONSEMI
Q2	TR	2SC4672	ROHM	KTC4379	KEC
D101,D102,D103 D105,D201,D203 D301,D303	DIODE	BAV99	DIODES	BAV99LT1G	ONSEMI
		SDS7000F	AUK	KDS226	KEC
		BAV99	PANJIT		
D104,D106,D202 D204,D205,D302 D304	DIODE	BAV70	DIODES	BAV70LT1G	ONSEMI
		SDS2838	AUK	KDS184	KEC
		BAV70	PANJIT		
ZD1,ZD101,ZD102	ZENER	UDZS9.1B	ROHM	UDZ9V1B	DIODES
		SDZ9V1	AUK	KDZ9.1V	KEC
		BZX84B9V1W	PANJIT	MM3Z9V1T1G	ONSEMI
ZD2	ZENER	UDZ3.3B	ROHM	UDZ3V3B	DIODES
		SDZ3V3	AUK	KDZ3.3V	KEC
		BZX84B3V3W	PANJIT	MM3Z3V3T1G	ONSEMI
C1,C2,C15	C-ELEC	390uF/35V NXH Series	SAMYOUNG	EQUIVALENT	
C3	MLCC	GRM188R71E222K	MURATA	EQUIVALENT	
C4	"	GRM1885C1E561J	"	"	
C5	"	GRM188R71E823K	"	"	
C7	"	GRM188R71E684K	"	"	
C8	"	GRM188R71E333K	"	"	
C9,C101,C102 C201,C202,301 C302	"	GRM219F51E105Z	"	"	
C10,C11	"	GRM188R71E103K	"	"	

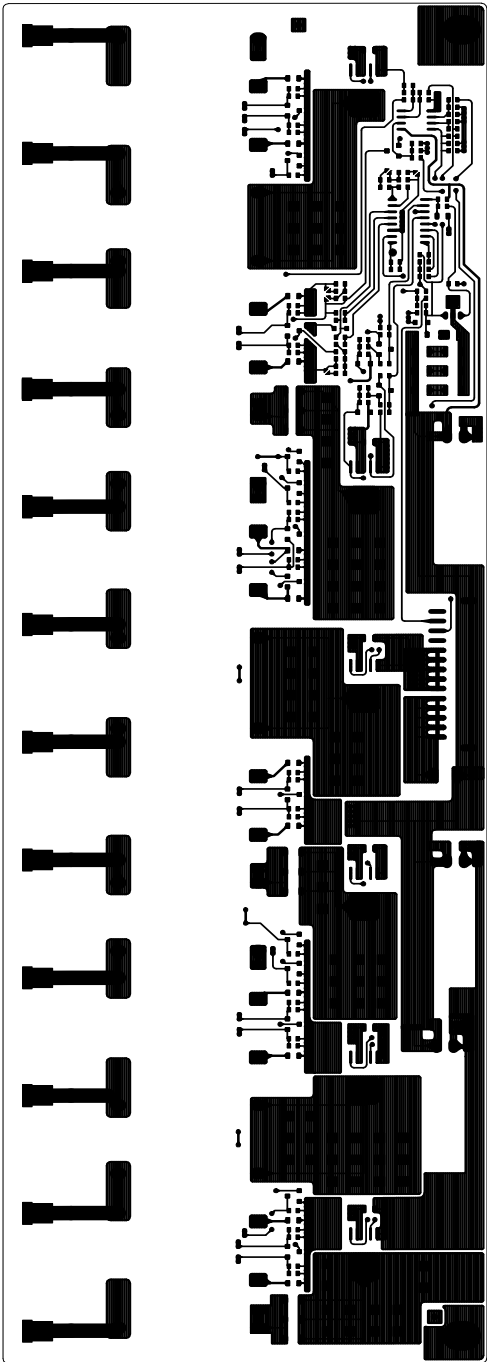
GREEN C&C TECH	INVERTER SPECIFICATION (GH331A(P1))	R&D DATE : 2009.03.26
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SYMBOL	NAME	1st		2nd	
		TYPE NO	MAKER	TYPE NO	MAKER
C12,C14,C16,C17	MLCC	GRM188F51E104Z	MURATA	EQUIVALENT	
C13	"	GRM216F51E104Z	"		
C99,C100	"	GRM188R71E473K	"	"	
C103,C104,C105,C203 C204,C205,C303,C304,C305	"	GRM31MR71E225K	"	"	
C106,C109,C110,C111,C114 C115,C206,C209,C210,C211 C214,C215,C306,C309,C310 C311,C314,C315	"	GRM1885C1E821J	"	"	
R1	CHIP-R	MCR10EZPJ332	ROHM	EQUIVALENT	
R2	"	MCR03EZPJ164	"	"	
R3	"	MCR03EZPJ563	"	"	
R4	"	MCR03EZPJ223	"	"	
R5	"	MCR03EZPJ303	"	"	
R6	"	MCR03EZPJ102	"	"	
R8,R13,R16,R17,R21,R23,R123	"	MCR03EZPJ104	"	"	
R9	"	MCR03EZPJ752	"	"	
R10	"	MCR03EZPJ562	"	"	
R11,R20,R26,R108,R110 R117,R118,R121,R122,R203,R204 R207,R208,R303,R304,R307,R308	"	MCR03EZPJ103	"	"	
R12	"	MCR03EZPJ473	"	"	
R14,R18	"	MCR03EZPJ203	"	"	
R19,R125	"	MCR03EZPJ304	"	"	
R22	"	MCR03EZPJ243	"	"	
R24	"	MCR03EZPJ153	"	"	
R25	"	MCR03EZPJ393	"	"	
R27	"	MCR03EZPJ105	"	"	
R28	"	MCR03EZPJ561	"	"	
R30	"	MCR03EZPJ000	"	"	
R31,R32,R33,R34,R35,R36	"	MCR18EZPJ471	"	"	

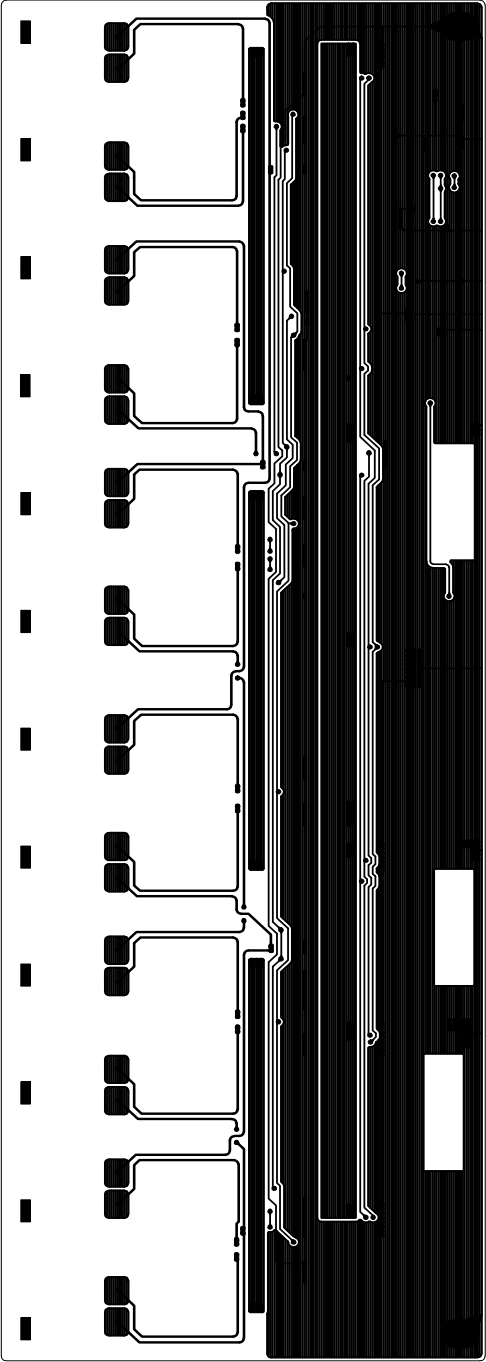
GREEN C&C TECH	INVERTER SPECIFICATION (GH331A(P1))	R&D DATE : 2009.03.26
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SYMBOL	NAME	1st	2nd	SYMBOL	NAME
		TYPE NO	MAKER	TYPE NO	MAKER
R101,R102,R103,R104	CHIP-R	MCR03EZPJ221	ROHM	EQUIVALENT	
R105,R106	"	MCR03EZPJ512	"	"	
R115,R116,R119,R120 R201,R202,R205,R206 R301,R302,R305,R306	"	MCR10EZPJ271	"	"	
R124	"	MCR03EZPJ753	"	"	
T1,T2,T3,T4,T5,T6	TRANS	GT-918	DONGHEUNG	GT-918	SEJIN
		GT-918	NAMYANG	EQUIVALENT	
F1	FUSE	CCF1N4	KOA	451-004	LITTELFUSE
		6125FF4-R	Cooper Bussmann	EQUIVALENT	
CN1	CONNECTOR	S14B-PHA-SM-TB	JST	20022WR-14AML	YEON-HO
		EQUIVALENT			
SK1,SK2,SK3,SK4 SK5,SK6,SK7,SK8 SK9,SK10,SK11,SK12	SOCKET	SW-HET-034.1-N	SHINWOO	EQUIVALENT	
PCB	PCB	GH331A REV0.0	JOONGWON	GH331A REV0.0	WONKYENG
		GH331A REV0.0	SEOKANG	GH331A REV0.0	SONGDO
		GH331A REV0.0	BACKSONG		

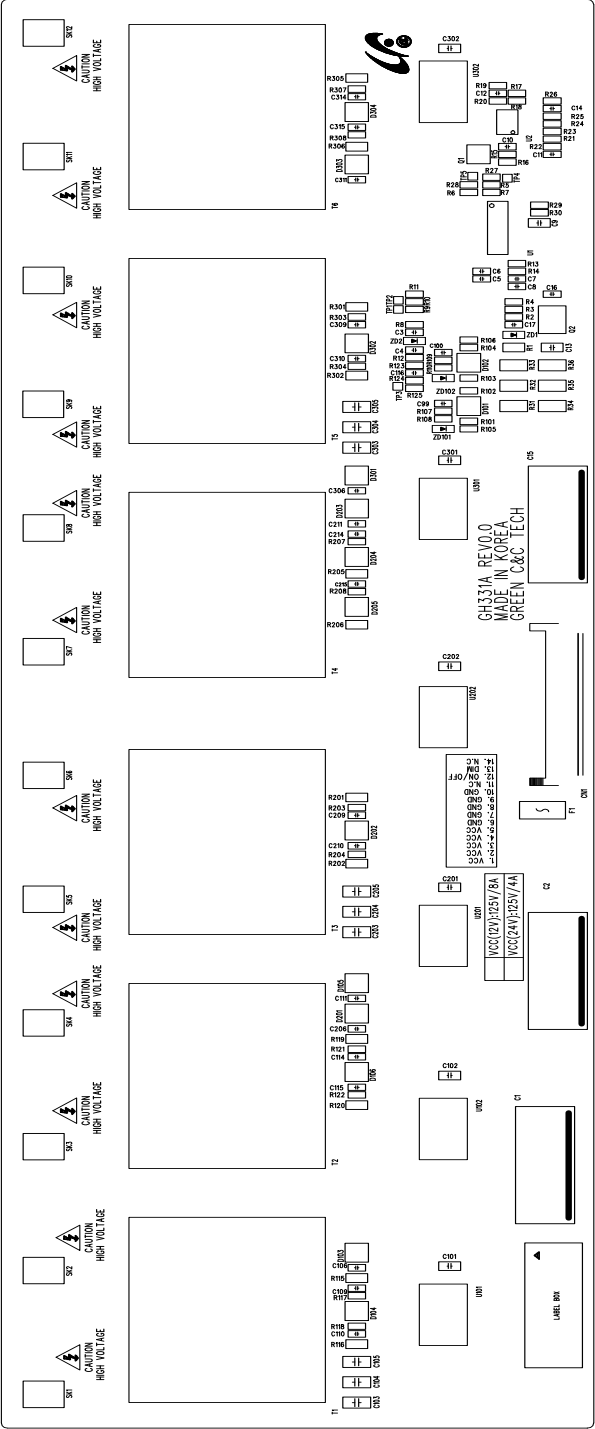
10. PCB LAYOUT



TOP

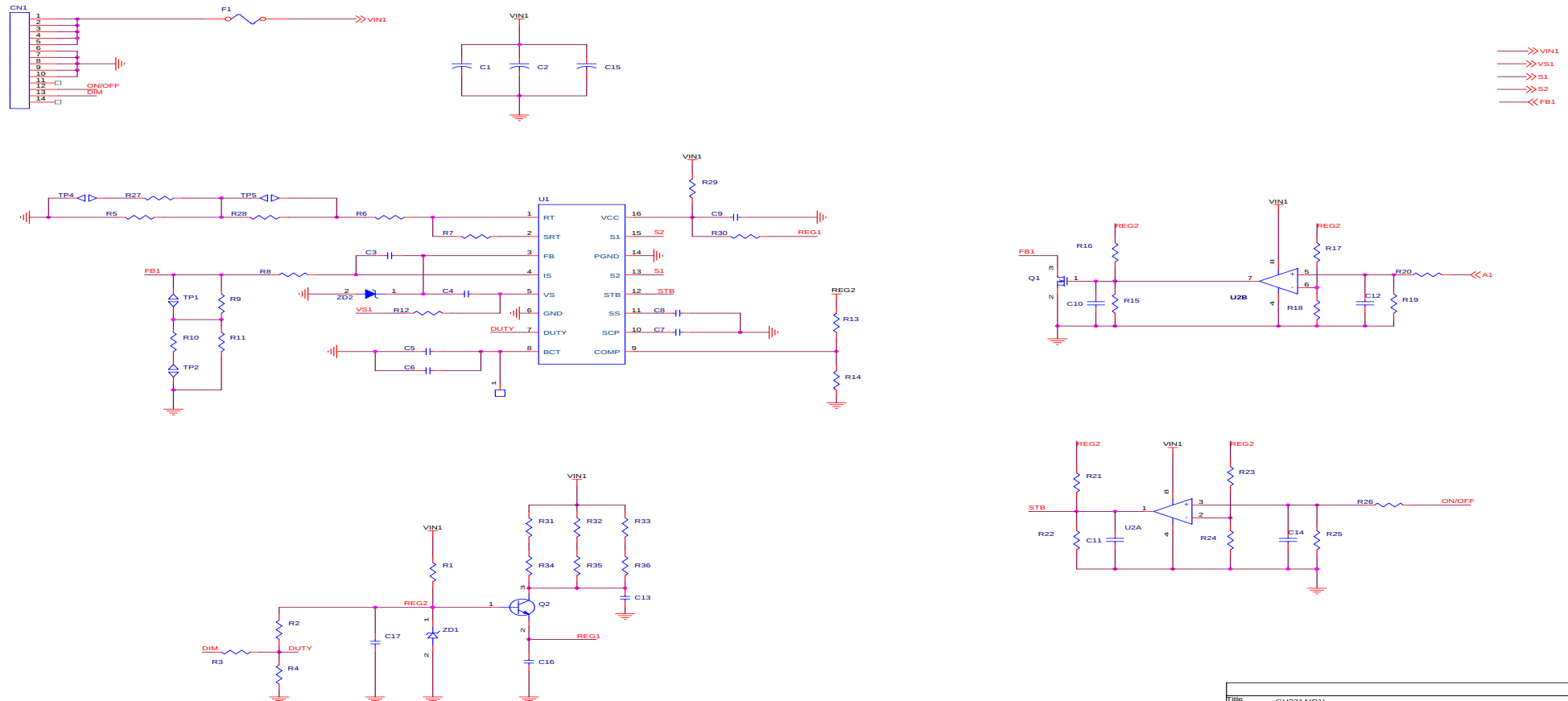


BOTTOM

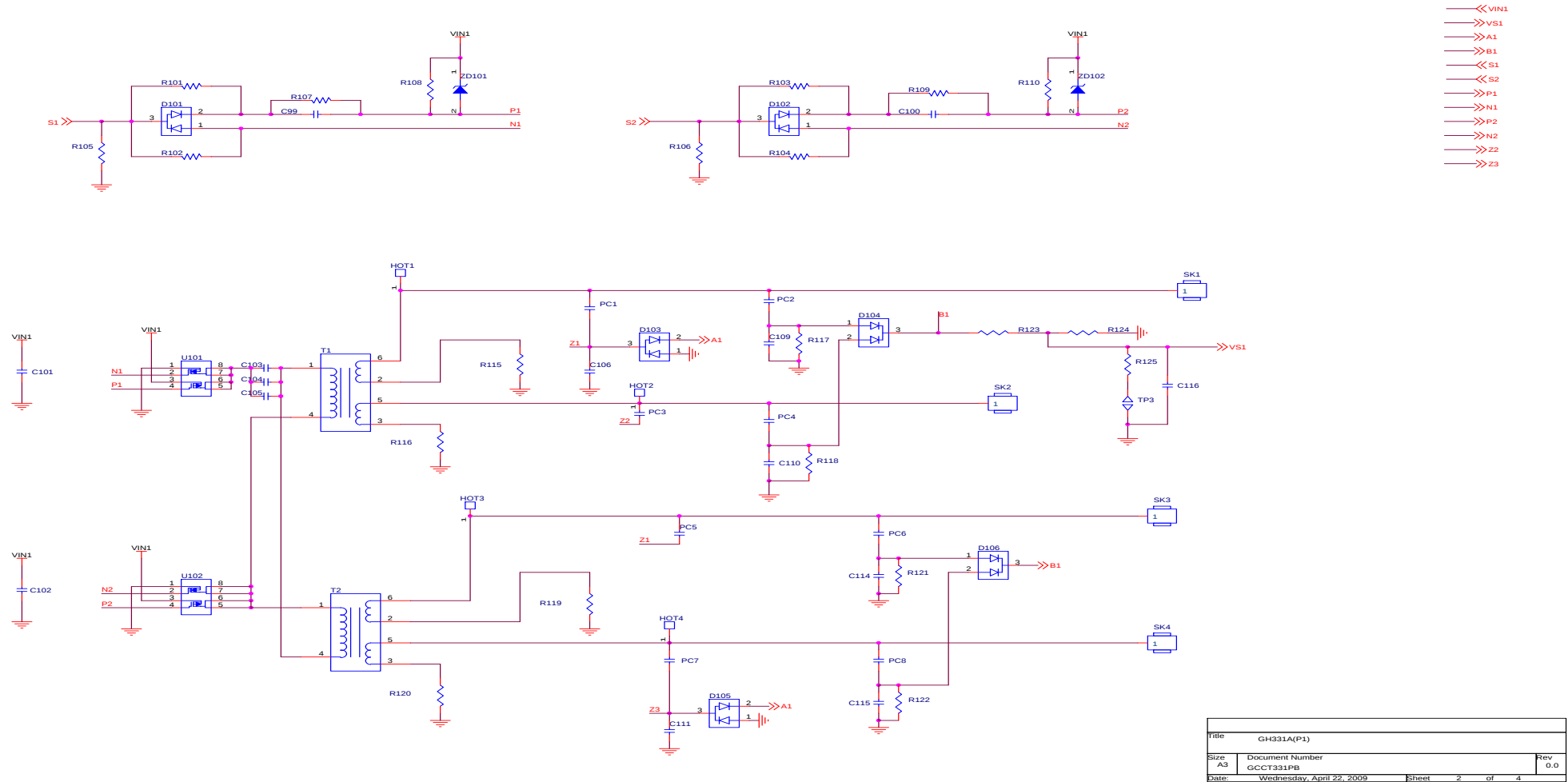


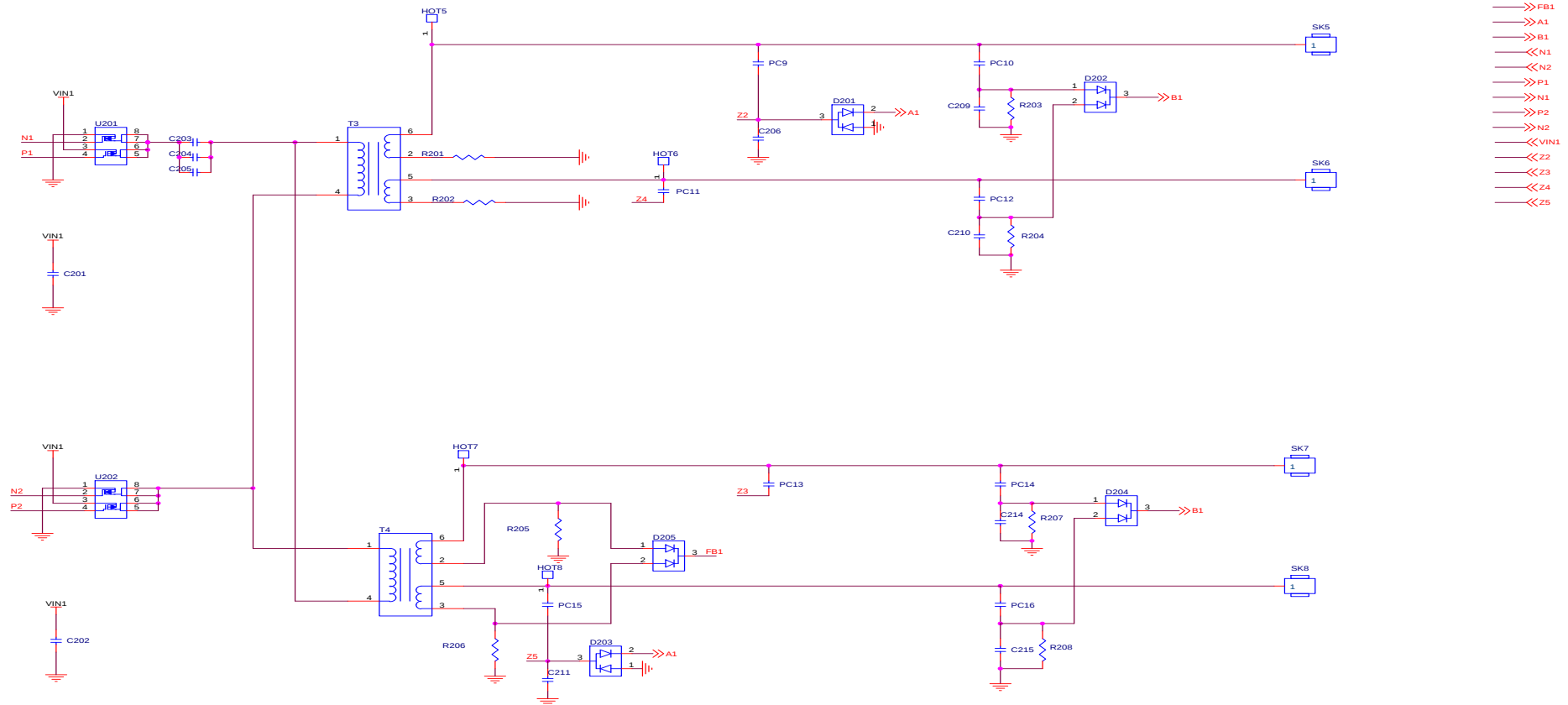
INVERTER SPECIFICATION
(GH331A(P1))

11. CIRCUIT

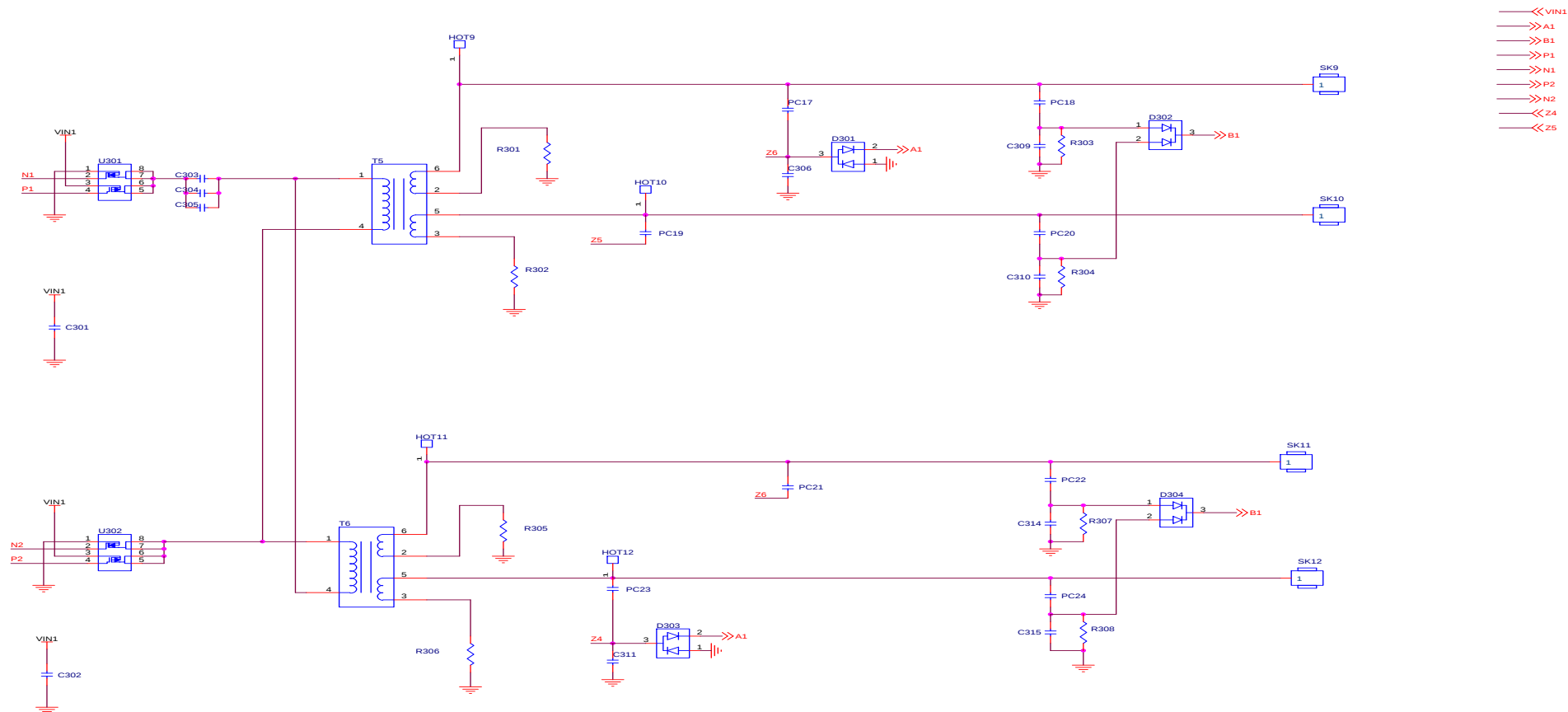


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A3	GCCT331PB
Date	Wednesday, April 22, 2009
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INVERTER SPECIFICATION
(GH331A(P1))

INVERTER SPECIFICATION
(GH331A(P1))

Title			
GH331A(P1)			
Size	Document Number	Rev	
A3	GCCT331P8	0.0	
Date:	Wednesday, April 22, 2009	Sheet	3 of 4



Title				GH331A(P1)			
Size A3	Document Number					Rev	
	GCCT331PB					0.1	
Date	Wednesday, April 22, 2009			Sheet	4	of	4

GREEN C&C TECH	INVERTER SPECIFICATION (GH331A(P1))	R&D DATE : 2009.03.26
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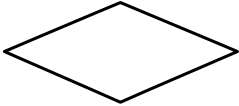
13. RELIABILITY TEST SPEC

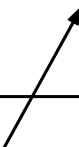
NO.	ITEM	CONDITIONS AND METHOD
1	High Temperature Storage Test	Temp : 85℃ Duration 250hrs
2	Low Temperature Storage Test	Temp : -30℃ Duration 250hrs
3	High Temperature High Humidity Operation test	Temp : 60℃ Humid 80%RH Duration 250hrs
4	Signal On/Off Test	Temp : Normal temperature On-off signal on 10sec / off 10sec(Vin= Max, Min) Power on full load 20,000cycle
5	Thermal Shock Test	Temp -20℃ ↔ 80℃,100cycle (30min) (30min)
6	High Temperature Operation test	Temp : 60℃ Duration 250hrs
7	Low Temperature Operation test	Temp : 0℃ Duration 250hrs

GREEN C&C TECH	INVERTER SPECIFICATION (GH331A(P1))	R&D DATE : 2009.03.26
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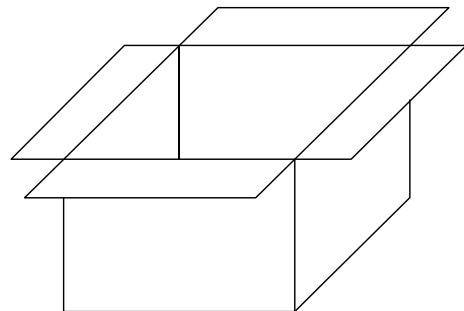
14. PACKING

14.1 BOX

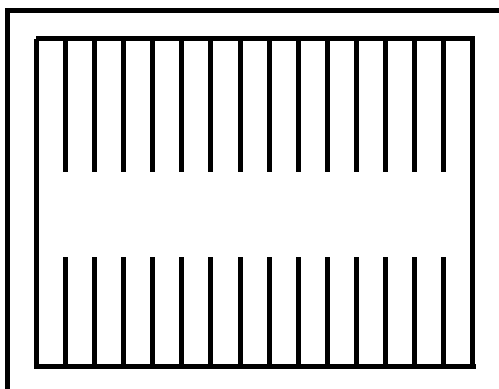
				 L/C NO : C/T NO : MADE IN KOREA
MODEL				
Q'TY	EA			
USER				
DATE				



MODEL	GH331A(P1)
Q,TY	000 EA
USER	
DATE	00.00.00



14.2 TRAY



1TRAY : 15EA (GR2049)

1 BOX : 3TRAY (45EA)

SYMBOL	TYPE NO
PACKING-TRAY	393*324*98
PACKING-BOX	415*340*332
PACKING-PAD	393*324*3

GREEN C&C TECH	INVERTER SPECIFICATION (GH331A(P1))	R&D DATE : 2009.03.26
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15 MATERIAL LIST FOR SAFETY GH331A(P1)

15.1 LIST

SYMBOL	NAME	TYPE NO.	MANUFACTURE	DESCRIPTION
F1	FUSE	CCF1N4	KOA CORPORATION	UL FILE NO : E171861
		451-004	LITTEL FUSE INC	UL FILE NO : E10480 CSA FILE NO : LR29862
		6125FF4-R	Cooper Bussmann	UL FILE NO : E19180
PCB	PRINTED WIRING BOARD	FR-4	JOONGWON	UL FILE NO : E111948
			WONKYENG	UL FILE NO : E202541
			SEOKANG	UL FILE NO : E150774
			SONGDO	UL FILE NO : E250018
			BACKSONG	UL FILE NO : E205233
CN1	CONNECTOR	20022WR-14AML	YEONHO	UL:FILE NO : 108706
		S14B-PHA-SM-TB	JST	UL FILE NO : E60389 POLYAMIDE RESIN UL94V-0
T1,T2,T3,T4,T5,T6	TRANSFORMER	GT-918	DONGHEUNG	CLASS A (105 de.C) SEE TRANS SPEC
			NAMYANG	CLASS A (105 de.C) SEE TRANS SPEC
			SEJIN	CLASS A (105 de.C) SEE TRANS SPEC

GREEN C&C TECH	INVERTER SPECIFICATION (GH331A(P1))	R&D DATE : 2009.03.26
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16. WARRANTY

14-1. Warranty

- ☞ This inverter the warranty period is one year from the manufactured date.
Green C&C Tech shall repair or provide new product free of charge in case of product failure during this period due to the causes other than the intentional acts of damage or negligence by user.

17. PRECAUTIONS

17-1. Warning

- ☞ This product is subject to high voltage. Do not touch it while the power is on. Failing to do so may result in electric shock.

17-2. Caution

- ☞ This product is designed for the lighting of a Cold Cathode Fluorescent Lamp.
Do not use it with any other load.
- ☞ Store this product under the conditions defined in the specification document.
- ☞ Do not store this product in an environment where dust, dirt or corrosive gas(salt,acid,base, etc.) is present.
- ☞ This product is subject to high voltage. If there is a possibility that the user may touch the product, provide a proper indication in order to draw the user's attention.
- ☞ This product is designed for use with general electronic equipment.
If it is to be used with medical equipment that directly affects human life or for the control of transportation equipment to which passengers entrust their lives, provide thorough fail-safe measures.
- ☞ Avoid using this product under high temperatures or high humidity or in an environment in which dust, dirt or any corrosive gas (salt,acid,base, etc.) is present.
Also,be careful not to allow the formation of dew condensation. It may result in damage or electric shock.
- ☞ If the product does not have a built-in protective circuit (circuit breaker, fuse, etc.),it is recommended that a fuse be used at the input stage to prevent the generation of smoke or fire in the event of a malfunction.
-Even when the product has a built-in protective circuit (circuit breaker, fuse, etc.), the circuit may not function properly due to inappropriate operating conditions or power-supply capacity.
-It is recommended that an appropriate protective circuit (circuit breaker, fuse, etc.) be provided separately from the built-in circuit.
- ☞ Use the product only within the specified input voltage, output power, output voltage and operating temperature ranges. Exceeding these values may result in damage, etc.
- ☞ Provide a measure for the prevention of surge voltage due to lightning, etc.Abnormal voltage may result in damage, etc.
- ☞ To prevent problems arising from short-circuiting of the high-voltage section, provide appropriate measures to prevent the entry of foreign substances following installation.
- ☞ This product is not designed to provide resistance to radiation.

DESCRIPTION	INVERTER TRANS
SPECIFICATION	EFD18X36
MAKER SPECIFICATION	
CODE NO.	GT-918
MODEL NO.	
SPECIAL ARTICLES	

DESIGN	CHECK	APPROVAL
A TERM OF VALIDITY	YEAR	

Indemnification

DONG HEUNG will indemnify,hold harmless, and at GREEN C&C TECH's request, defend GREEN C&C TECH's and GREEN C&C TECH's directors, officers, employees, agents and independent contractors from and against any loss, cost,liability or expense (including court costs and reasonable fees of attorneys and other professionals)arising out of or resulting from any third party claim that any Products and/or Components provided by DONG HEUNG infringes patent,copyright, trade secret right or other intellectual property right. If DONG HEUNG receives notice of an alleged patent, copyright, trade secret or other intellectual property right infringement or if GREEN C&C TECH's's use of the Products and/or the Compoments provided by DONG HEUNG shall be prevented by permanent injunction for reasons of patent, copyright or trade secret infringement,DONG HEUNG may,at its sole option and expense, procure for GREEN C&C TECH's the right to continued use of the Products and/or the Components as provided hereunder,or modify the allegedly infringing item such that it is no longer infringing,or replace the allegedly infringing item.

REQUEST CUSTOMER	DONG HEUNG ELECTRONICS CO., LTD.	TEL	(041) 552-1106~9
ADDRESS	555-31 BAEKSUK-DONG, CHONAN-CITY,CHUNG-NAM, KOREA		
FACTORY 1	LAODICUN BAZHOU CITY,HEIBEI PROVINCE,CHINA		
FACTORY 2	SHENGQUANGONGYEYUAN LAISANQU YANTAI		

S P E C I F I C A T I O N

APPLICATION FOR APPROVAL OF

ITEM : INVERTER TRANS

DESCRIPTION : EFD 18X36

PART NO : GT-918

MODEL NO :

This space is used for customer's approval

DONG HEUNG ELECTRONICS CO., LTD.

555-31 BAEKSUK-DONG, CHONAN-CITY, CHUNG-NAM, KOREA

TEL : (041)552-1106~9

FAX : (041)552-3784

BAZHOU DONGXING

LAODICUN BAZHOU CITY, HEIBEI PROVINCE, CHINA

YANTAI

SHENGQUANGONGYEYUAN, LAISHANQU YANTAI,

SHANDONG, CHINA

DATE : 2009. 04. 16.

DRAWN BY S. J. KIM 	DATE 2009. 04. 16.
CHECKED BY J. C. JI 	DATE 2009. 04. 16.
APPROVED BY Y. S. KIM 	DATE 2009. 04. 16.

부 품 승 인 원 개 정 이 력 지

ITEM : INVERTER TRANS

MODEL NAME :

PART No. : GT-918

No.	년 월 일	개 정 내 용	해 당 Page
	2009.04.16	* 신규제정	ALL

개 정 이 력										
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SPECIFICATION		SHEET NO.	1 OF 23			
		D A T E	2009. 04. 16.			
PART NAME	INVERTER TRANS	MODEL NAME				
PART NO.	GT-918	DESCRIPTION	EFD 18 X 36			

1. GENERAL SPECIFICATION

1) SCOPE

This specification applies to part number GT-918 INVERTER TRANS
for use in color TV and Monitor with is supplied for GREEN C&C CO., LTD.

2. GENERAL PREFERENCE

The reinspection & reapproval is required to change the structure, quality,
progress of this Specification.

3. ABSOLUTE REGULARITY

1) Keep Temperature : -25℃ ~ 105℃

2) Keep Humidity : 20% ~ 95%

3) Use Temperature : -25℃ ~ 105℃

4) Use Humidity : 20% ~ 85%

4. MECHANICAL CHARACTERISTIC

1) TERMINAL TENSION INTENSITY

After fix the body, The Terminal Shall withstand for 30 seconds without losing when
a static load of 1.0Kg is applied to drawing direction of the Terminal.

2) TERMINAL BEND INTENSITY

The Terminal shall withstand without breakage and bend when it returns after bend 1
time to the left side and 1 time right side with a static load.

3) VIBRATION TEST

After fix a body of the vibration board, The terminal shall withstand without
losing and bend when it operates vibration test of 3 directions(X,Y,Z) for 2hours.
(Test condition : -frequency = 10Hz ~ 50Hz , -Amplitude = 0.75mm)

5. ELECTRICAL CHARACTERISTIC

1) INSULATION RESISTANCE

① Primary COIL TO CORE : Shall be more than 100MΩ when measured with DC 500V

② Primary COIL to Secondary COIL : Shall be more than 100MΩ when measured with
DC 500V

③ Secondary COIL TO CORE : SHALL be more than 100MΩ when measured with DC 500V

2) WITHSTAND VOLTAGE

① Primary COIL to Secondary COIL : Shall be no damage when
measured AC0.5KV, 5mA for 1 Min.

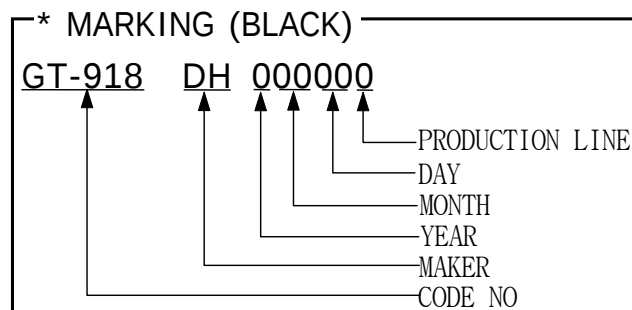
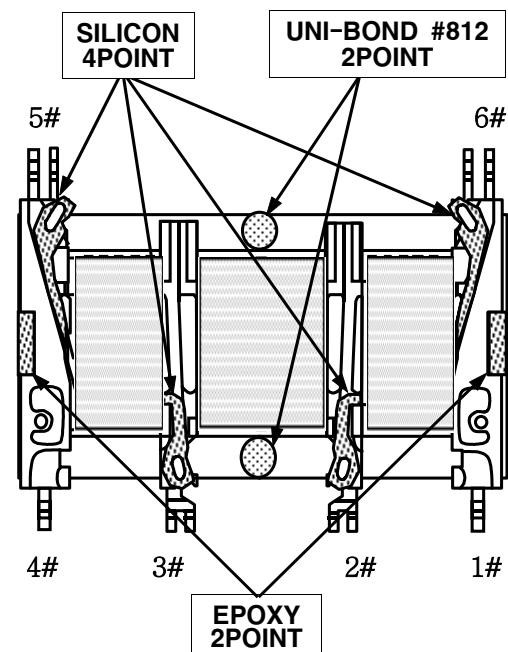
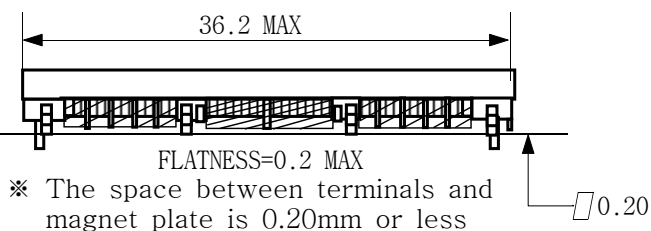
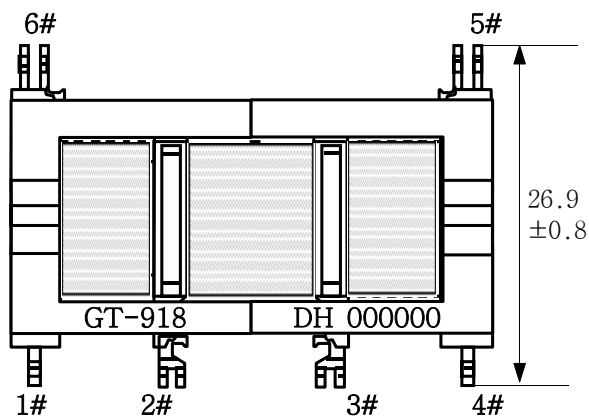
② P COIL TO CORE : SHALL be no damage when
measured AC2.5KV, 5mA for 1 Min.

③ S COIL TO CORE : SHALL be no damage when
measured AC2.5KV, 5mA for 1 Min.

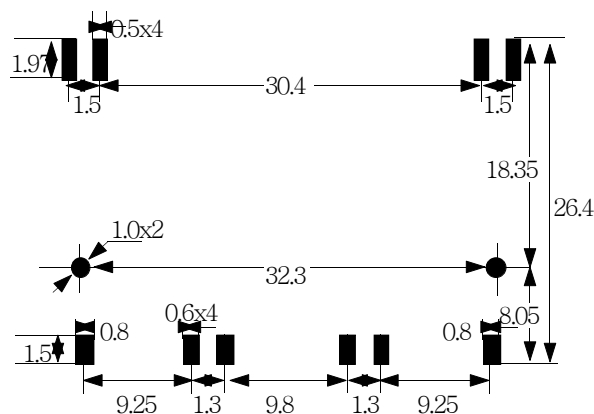
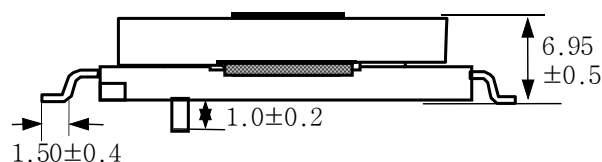
NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
1						
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SPECIFICATION		SHEET NO.	2 OF 23
		D A T E	2009. 04. 16.
PART NAME	INVERTER TRANS	MODEL NAME	
PART NO.	GT-918	DESCRIPTION	EFD 18 X 36

6. MECHANICAL ASSEMBLY (UNIT : mm)



※PRODUCTION LINE
A : CHUN AN
B : BAZHOU
Y : YANTAI



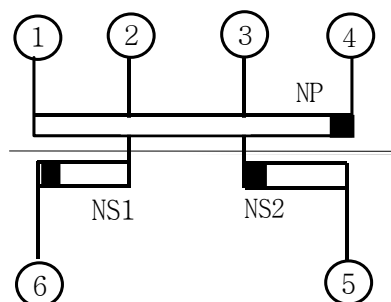
* PIN LENGTH : BEFORE SOLDERING

NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
1						
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CUSTOMER : GREEN C&C CO., LTD.

SPECIFICATION		SHEET NO.	3 OF 23
		D A T E	2009. 04. 16.
PART NAME	INVERTER TRANS	MODEL NAME	
PART NO.	GT-918	DESCRIPTION	EFD 18 X 36

7. SCHEMATIC DIAGRAM.



* WINDING DIRECTION : 4-5# BOTTOM VIEW

8. WINDING SPECIFICATION

NO	TERMINAL(S-F)	WIRE	TURNS	WINDING METHOD
NS1	6 - 2	GRD2 0.030Ø	2800	C.C.W
NS2	3 - 5	GRD2 0.030Ø	2800	C.C.W
NP	4 - 1	LITZ 0.1ØX12	52	C.C.W

NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
1						
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SPECIFICATION		SHEET NO.	4 OF 23
		D A T E	2009. 04. 16.
PART NAME	INVERTER TRANS	MODEL NAME	
PART NO.	GT-918	DESCRIPTION	EFD 18 X 36

9. ELECTRICAL CHARACTERISTICS AT 25℃

NO	ITEM (CONDITION)	TERMINAL	SPECIFICATION	INSTRUMENT
1	INDUCTANCE	6 - 2	1.9 H MIN	HP-4284A at 1KHz, 1Vrms
		3 - 5	1.9 H MIN	
		4 - 1	760 uH MIN	
2	LEAKAGE INDUCTANCE	6 - 2	443 mH $\pm$ 7%	HP-4284A at 10KHz, 1Vrms
		3 - 5	443 mH $\pm$ 7%	
		4 - 1	67 uH REF.	
3	D.C RESISTANCE	6 - 2	1.85K Ω $\pm$ 12%	WHEATSTONE BRIDGE YEW TYPE 2755 HIOKI 3220
		3 - 5	1.85K Ω $\pm$ 12%	
		4 - 1	0.36 Ω MAX	
4	INSULATION RESISTANCE	PRIMARY TO SECONDARY	DC 500V / 100M Ω	KIKUSUI TOS-9200
5	WHITHSTANDING VOLTAGE	PRI. TO SEC. COIL TO CORE	AC 0.5KV, 5mA/1 MINUTE AC 2.5KV, 5mA/1 MINUTE	KIKUSUI TOS-9200
6	IMPULSE TEST	START & FINISH	AC 1.4[KV] FREQUENCY 60[Hz]	

NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
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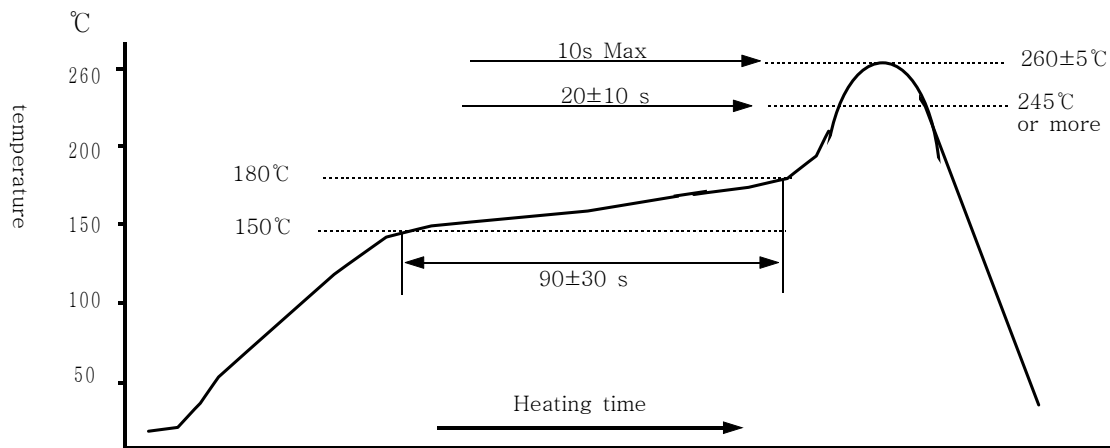
SPECIFICATION		SHEET NO.	5 OF 23
		D A T E	2009. 04. 16.
PART NAME	INVERTER TRANS	MODEL NAME	
PART NO.	GT-918	DESCRIPTION	EFD 18 X 36

10. 신뢰성 시험(Reliability Test)

ITEM	TEST CONDITION	SPEC
내 습 성 (HUMIDITY-RESISTANCE)	40±2℃, 90~95%, 96HR, 상온에서 60분 이상 방치 후 측정 (Measure At Normal Temperature That Keep more Than 60Min After Test.)	L: 초기치±10% (FIRST)
열 충 격 (HEAT SHOCK-RESISTANCE)	-40℃±2℃, 30분 → 25±2℃ 15분 → 100±2℃ 30분: 100cycle 시험 후 상온에서 60분 이상 보존 후 측정 (Measure At Normal Temperature That Keep more Than 60Min After Test.)	L: 초기치±10% (FIRST)
내 열 성 (HEAT-RESISTANCE)	105℃±2℃ 96HR, 상온에서 60분 이상 방치 후 측정 (Measure At Normal Temperature That Keep more Than 60Min After Test.)	L: 초기치±10% (FIRST)
내 한 성 (COLD-RESISTANCE)	-25±2℃ 96HR, 상온에서 60분 이상 방치 후 측정 (Measure At Normal Temperature That Keep more Than 60Min After Test.)	L: 초기치±10% (FIRST)
VIBRATION TEST	Vibration frequency: 10Hz~50Hz~10Hz. All amplitude: 0.75mm/ 1Minte(Repeat) Direction: X,Y,Z(each of 1hour) after test, there is no abnormality in the elect characteristic the appearance.	

11. REFLOW HEATING CONDITION

Peak: 260±5℃, at 10s Max.
Soldering zone: 245℃ or more, 20±10s
Number of cycles: 2cycles

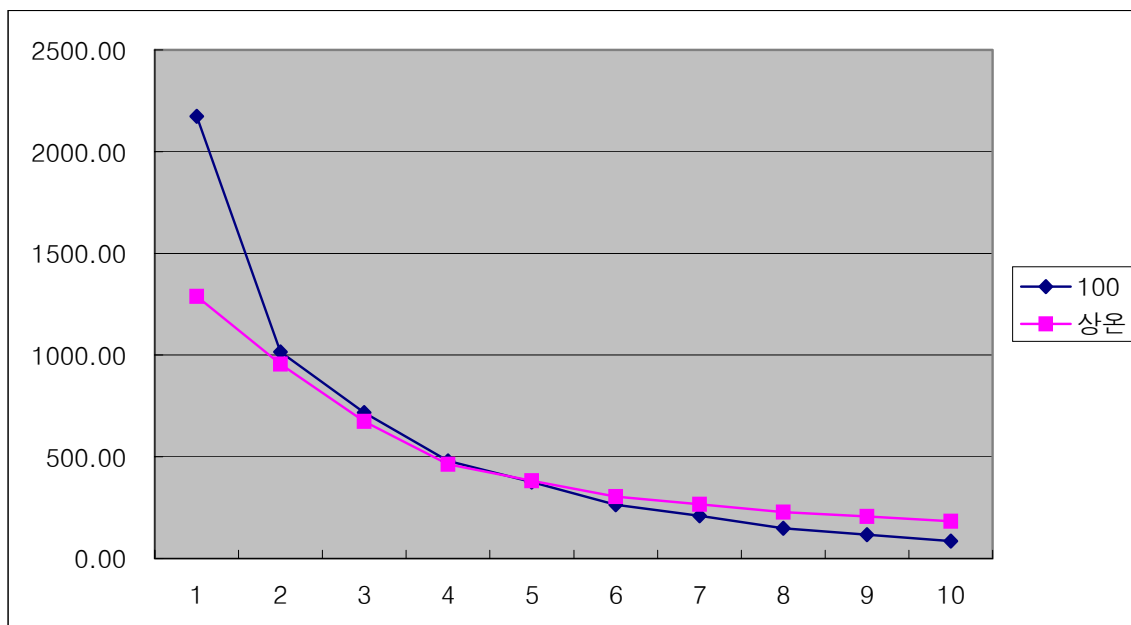


NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
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SPECIFICATION		SHEET NO.	6 OF 23
		D A T E	2009. 04. 16.
PART NAME	INVERTER TRANS	MODEL NAME	
PART NO.	GT-918	DESCRIPTION	EFD 18 X 36

12. SATURATION 특성

NO	0mA	30mA	50mA	80mA	100mA	130mA	150mA	180mA	200mA	230mA
	uH	uH	uH	uH	uH	uH	uH	uH	uH	uH
1	1376.00	966.00	664.00	454.00	375.00	299.00	264.00	226.00	205.00	181.00
2	1360.00	962.00	673.00	466.00	386.00	308.00	271.00	231.00	210.00	185.00
3	1139.00	974.00	713.00	487.00	397.00	311.00	272.00	229.00	207.00	181.00
4	1132.00	872.00	620.00	429.00	355.00	284.00	250.00	213.00	194.00	170.00
5	1433.00	1002.00	698.00	480.00	396.00	315.00	277.00	236.00	215.00	197.00
AVG	1288.00	955.20	673.60	463.20	381.80	303.40	266.80	227.00	206.20	182.80
100℃	2174.00	1016.00	717.00	480.00	376.00	264.00	209.00	148.00	117.00	85.00

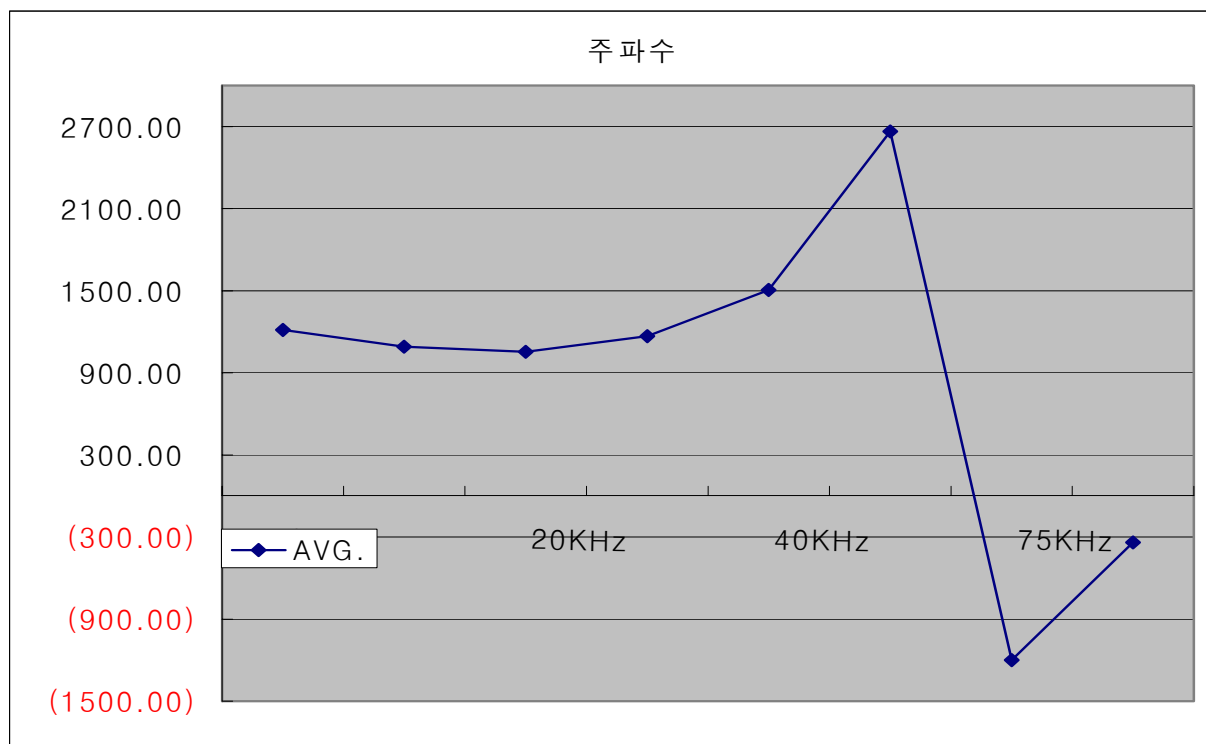


NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
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SPECIFICATION		SHEET NO.	7 OF 23
		D A T E	2009. 04. 16.
PART NAME	INVERTER TRANS	MODEL NAME	
PART NO.	GT-918	DESCRIPTION	EFD 18 X 36

13. FREQUENCY 특성

NO	1KHz	10KHz	20KHz	30KHz	40KHz	50KHz	75KHz	100KHz
	uH	uH	uH	uH	uH	uH	uH	uH
1	1326.00	1138.00	1091.00	1204.00	1548.00	2824.00	(1136.00)	(330.00)
2	1297.00	1186.00	1082.00	1191.00	1534.00	2699.00	(1208.00)	(342.00)
3	1056.00	998.00	1006.00	1129.00	1455.00	2532.00	(1232.00)	(343.00)
4	1046.00	987.00	989.00	1098.00	1397.00	2286.00	(1346.00)	(361.00)
5	1339.00	1151.00	1102.00	1216.00	1590.00	2975.00	(1076.00)	(316.00)
AVG.	1212.80	1092.00	1054.00	1167.60	1504.80	2663.20	(1199.60)	(338.40)

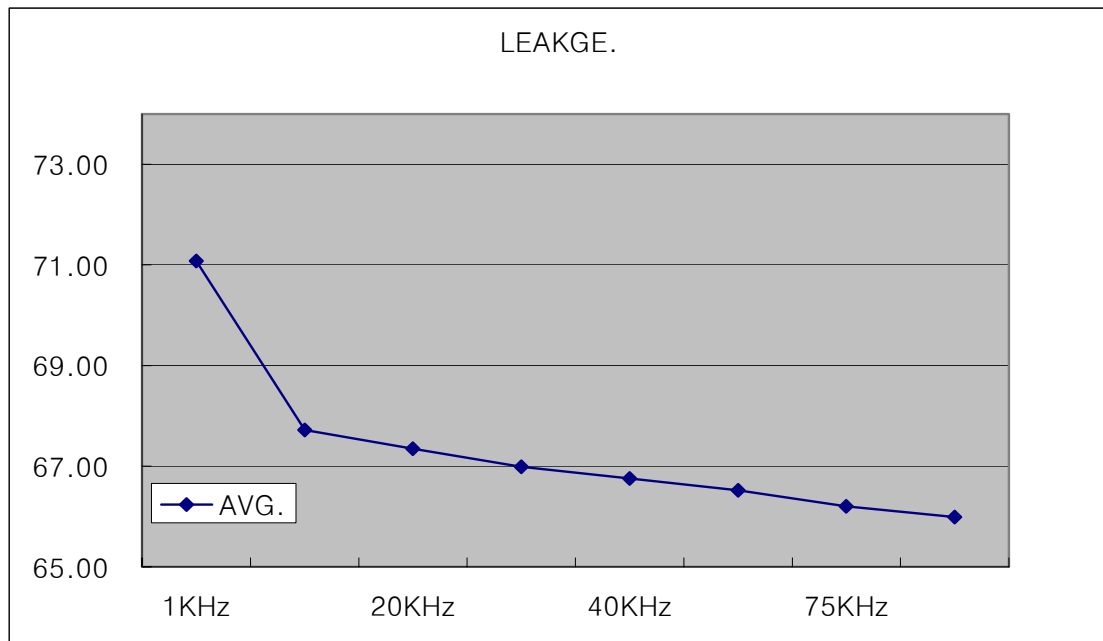


NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
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SPECIFICATION		SHEET NO.	8 OF 23
		D A T E	2009. 04. 16.
PART NAME	INVERTER TRANS	MODEL NAME	
PART NO.	GT-918	DESCRIPTION	EFD 18 X 36

14. LEAKAGE 특성

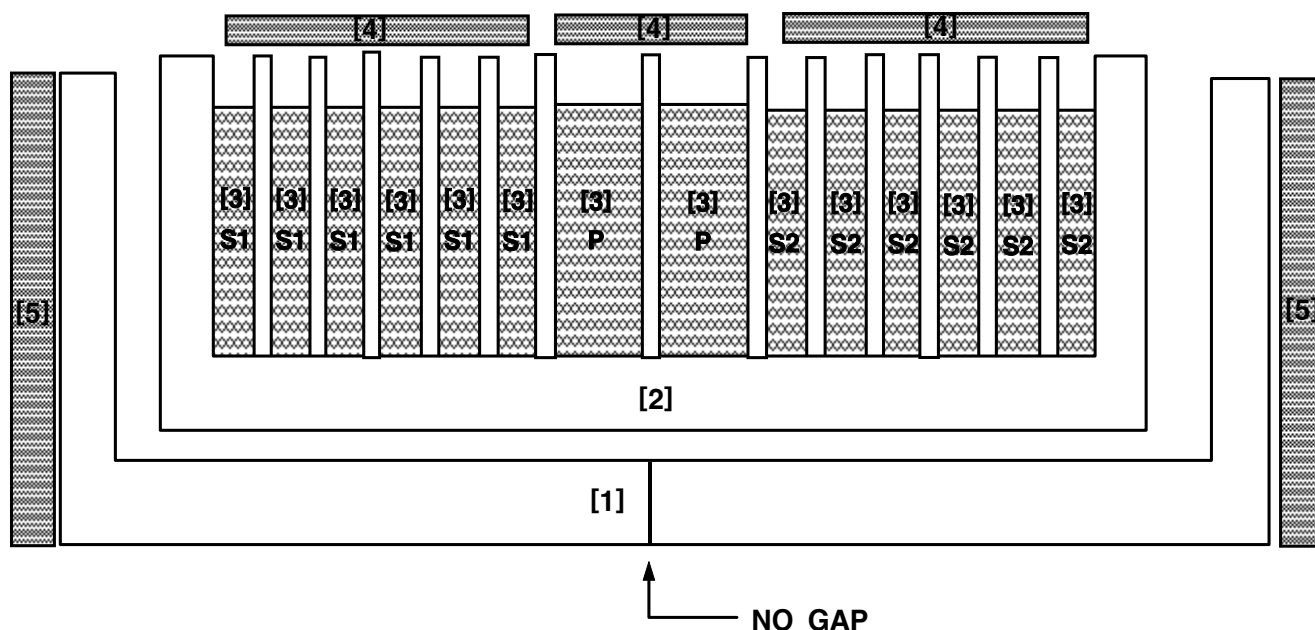
NO	1KHz	10KHz	20KHz	30KHz	40KHz	50KHz	75KHz	100KHz
	uH	uH	uH	uH	uH	uH	uH	uH
1	71.20	67.90	67.52	67.13	66.83	66.60	66.23	66.03
2	71.02	67.67	67.30	66.92	66.91	66.62	66.39	66.02
3	71.22	67.85	67.52	67.19	66.93	66.73	66.41	66.28
4	71.01	67.55	67.27	67.01	66.79	66.61	66.34	66.19
5	70.95	67.62	67.14	66.68	66.31	66.03	65.62	65.42
AVG.	71.08	67.72	67.35	66.99	66.75	66.52	66.20	65.99



NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
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SPECIFICATION		SHEET NO.	9 OF 23
		D A T E	2009. 04. 16.
PART NAME	INVERTER TRANS	MODEL NAME	
PART NO.	GT-918	DESCRIPTION	EFD 18 X 36

15. INTERNAL CONSTRUCTION



NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
1						
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CUSTOMER : GREEN C&C CO., LTD.

SPECIFICATION		SHEET NO.	10 OF 23
		D A T E	2009. 04. 16.
PART NAME	INVERTER TRANS	MODEL NAME	
PART NO.	GT-918	DESCRIPTION	EFD 18 X 36

16. MATERIAL LIST

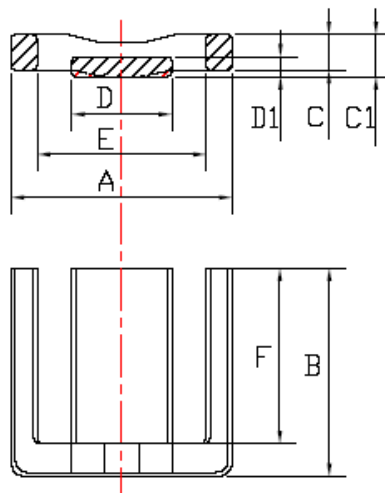
NO	MATERIAL	ITEM	MANUFACTURER	UL FILE NO
1	CORE	EFD 18x36 YN202,SN10HT,SC12N	YOUNGHWAA FERRITE CO., LTD. SAMWHA ELECTRONICS CO., LTD. SCC CO., LTD.	
2	BOBBIN	EFD 1836DH L.C.P (94V-0)	SUMITOMO CHEMICAL CO., LTD. E I DUPONT DE NEMOURS & CO INC. SAMSUNG FINE CHEMICALS CO.,LTD.	E54705 E41938 E309188
3	COPPER WIRE	LITZ 0.1ØX12#	DONGYANG ELECTRONICS CO., LTD. SHANDONG PENGTAI SPECIAL ENAMELLED WIRE CO LTD. SHANDONG ZHONGCHEN MAGNET WIRE CO LTD.	E102761 E166187 E248975
		GRD2 0.030Ø	ELEKTRISOLA SDN BHD.	E143312M
4	COVER TAPE	KAPTON TAPE 60u, W≒6.5mm, 9.5mm	DUCK SUNG HITECH CO., LTD. TAE HWA INDUSTRIAL CO., LTD. SHANGHAI JINZHANG INSULATING MATERIAL CO.,LTD.	E105147 E92677 E229667
5	CORE FIXING TAPE	KAPTON TAPE 60u, W≒3.5mm	YOUNG WOO CO.,LTD. JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO., LTD.	E203272 E165111
6	SILICON	N-2034 SE9189L	WACKER CHEMIE AG DOW CORNING TORAY SILICONE CO.,LTD.	E75704 E55519
7	UNI-BOND	UNBOND-#812 SK015B or equiv.	SUNG MOON TELECOMUNICATION CO.,LTD. SE GYE CHEMICAL CO., LTD. or equiv.	
8	EPOXY	SK-1000 SHA-101D-1	SE GYE CHEMICAL CO., LTD. CHEMTECH CO.,LTD.	
9	SOLDER BAR	SN98CU2-B20	SAMWOO ALLOYMETAL CO., LTD.	

NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
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CUSTOMER : GREEN C&C CO., LTD.

SPECIFICATION		SHEET NO.	11 OF 23
		D A T E	2009. 04. 16.
PART NAME	INVERTER TRANS	MODEL NAME	
PART NO.	GT-918	DESCRIPTION	EFD 18 X 36

17. CORES DIMENSIONS



A	B	C	C1	D	D1	E	F
18.40 ±0.40	17.40 ±0.16	3.80 ±0.16	4.50 ±0.20	7.30 ±0.16	2.55 ±0.16	13.00 ±0.80	14.20 ±0.16

NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
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SPECIFICATION		SHEET NO.	13 OF 23
		D A T E	2009. 04. 16.
PART NAME	INVERTER TRANS	MODEL NAME	
PART NO.	GT-918	DESCRIPTION	EFD 18 X 36

* CORE

SYMBOL	UNIT	CONDITION		SC12N	SN-10HT	YN202
μ_{iac}	-	Temp 23℃ f = 10kHz,0.1V		1300±20%	1100±20%	1300±20%
$\tan\delta/\mu i$	-			20X10 ⁻⁶	20X10 ⁻⁶	25X10 ⁻⁶
BmS	mT	Temp 23℃ f = 1kHz H=4000A/m		360	360	360
Brm	mT			240	190	170
Hcm	A/m			20	19	18
Pcv	kW/m ^v	50kHz 150mT	25℃	400	-	450
			120℃	450	-	400
p	MΩ . m	-		> 10	> 6.0	≥ 10
Tc	℃	-		> 160	> 160	≥ 160
$\alpha_{\mu r}$	X10 ^{αα} /℃	20℃ ~ 60℃		5 ~ 10	5 ~ 10	5 ~ 10
d	g/Cm³	-		> 5.1	> 5.0	> 5.0

NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
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SPECIFICATION		SHEET NO.	14 OF 23
		D A T E	2009. 04. 16.
PART NAME	INVERTER TRANS	MODEL NAME	
PART NO.	GT-918	DESCRIPTION	EFD 18 X 36

* BOBBIN

SUMITOMO CHEMICAL CO.,LTD. **E54705 (M)**
5-33 KITAHAMA 4-CHOMA CHUO-KU, OSAKA JAPAN
WILMINGTON DE 19898

Min UL94 Elec Mech H H V 4 C
 Thk Flame with w/o W A T 9 T
 mm Class Imp Imp I I R 5 I
 Mtl Dsg Col Liquid Crystal Polyester (LCP), designated "EKONOL" or "SUMIKASUPER", furnished in the form of pellets.

E-4008(k)	NC.WT.BK	0.30	94V-0	130	130	130	-	-	-	-	-
		0.75	94V-0	220	180	220	3	4	-	-	-
		1.5	94V-0	220	200	240	2	4	-	-	-
		3.0	94V-1	220	200	240	1	4	0	5	4

Reports : November 10, 1994 August 17, 1992 August 17, 1992

Replaces E547050010 dated August 16, 1994. (Cont. or CO11 card)

683604011

n7047

Underwriters Laboratories Inc.

Dh/0246672

Plastics - Component

EI DUPONT DE NEMOURS & CO INC

E41938

ENGINEERING POLYMERS

CHESTNUT RUN PLAZA

PO BOX 80713

WILMINGTON, DE 19880 USA

		Min.	H	H	R T I		H	D		
		Thk	Flame	W	A	Elec	Mech	T	9	C
Material Dsg	Color	MM	Class	I	I	Imp	Str	R	5	I
Liquid Crystal Polymer (LCP), designated "ZENITE" furnished as pellets.										
6130+	BK	0.19	V-0	-	-	130	130	130	-	-
	ALL	0.38	V-0	-	-	130	130	130	-	-
		0.75	V-0	3	4	240	130	240	-	-
		1.5	V-0	1	4	240	210	240	-	-
		3.0	V-0	0	4	240	220	240	4	-
6130L+	BK	0.38	V-0	-	-	130	130	130	-	-
		0.75	V-0	3	4	240	130	240	-	-
	WT	1.0	V-0	3	4	240	130	240	-	-
	ALL	1.5	V-0	1	4	240	210	240	-	-
		3.0	V-0	0	4	240	220	240	4	-

NOTE1-Material designations may be followed by suffix letters and numbers.

NOTE2-Material designations may be prefixed by "ZEN".

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

NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
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SPECIFICATION		SHEET NO.	15 OF 23
		D A T E	2009. 04. 16.
PART NAME	INVERTER TRANS	MODEL NAME	
PART NO.	GT-918	DESCRIPTION	EFD 18 X 36

Plastics-Component

See General Information for Plastics-Component

E309188

SAMSUNG FINE CHEMICALS CO LTD
103-1 MOONJI-DONG
YUSUNG-GU
DAEJEON,305-380 REPUBLIC OF KOREA

									H	D	
		Min.		H	H	R T I			V	4	C
		Thk	Flame	W	A	Elec	Mech		T	9	T
Material Dsg	Color	mm	Class	I	I		Imp	Str	R	5	I
Liquid Crystal Polymer(LCP),furnishsd as pellets.											
KB40M, KB4DBM											
	NC,BK	0.29-0.32	V-0	-	-	130	130	130			

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

Last Updated on 2007-01-09

*WIRE

DONG YANG ELECTRONICS IND CO LTD

E102761

5-20 BANGYE-RI
MUNMAK-EUB
WONJU-SHI, KANGWON-DO 220-800 REPUBLIC OF KOREA

Mtl Dsg	Coat Typ		ANSI Type	TI
	BC	OC		
AI-EIW	Polyester-	Polyamide-	MW35	200
DSB-EIA	Ester-imide	Polyamide	MW76	180
DSB-EIA(S)	Solderable ester-imide	Polyamide	MW78	180
EIW	Polyester-imide		MW30	180
NY-EIW	Polyester-amide-imide	Polyamide	MW76	180
NY-PEW	Polyester	Polyamide	MW24	155
NY-PEW(F)	Polyester	Polyamide	MW24	155
NY-UEW	Polyurethane	Polyamide	MW80,	155,
			MW28#	130
UEW(F)	Polyurethane	-	MW79,	155,
UEW(B)	Polyurethane	-	MW75#	130
UAL	Polyurethane	-	@	155
PEW	Polyester	-	@	180
			MW5#	155

Note: UAL is the alternate aluminum grade designation of magnet wire designated UEW. @- Non-ANSI type.
#- The wire may perform better than the rating reflects and hence may not be suitable for insulation system testing.
Marking: Company name or "E102761" and material designation or marked designation on package or reel.
Last Updated on 2007-01-08

NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
1						
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SPECIFICATION		SHEET NO.	16 OF 23
		D A T E	2009. 04. 16.
PART NAME	INVERTER TRANS	MODEL NAME	
PART NO.	GT-918	DESCRIPTION	EFD 18 X 36

**SHANDONG PENGTAI SPECIAL
ENAMELLED WIRE CO LTD**
DA XIN DIAN ZHENG
PENGLAI
SHANDONG 265612, CHINA

E166187

Mtl Dsg	Coat Type		ANSI Type	Temp Class
	BC	OC		
PTMW30, EIW-180,PEI/180,QZY/180	Polyesterimide	-	MW30	180
PTMW35, EIW-A,(PEI/PAI)/200,Q(ZY/XY)/200	Polyester	Polyamideimide	MW35	200
PTMW73, EIA-W,(PEI/PAI)/200, Q(ZY/XY)/200	Polyester	Polyamideimide	MW73	200
PTMW75, UEW-130, PU/130,QA/130	Polyurethane	-	MW75	130
EI/AIW220, (PEI/PAI)/220	Polyesterimide	Polyamideimide	@	220
			Mw35,MW73#	200
Q(ZY/XY)/220				
PTMW82, UEW-180,PU/180, QA/180	Polyurethane	-	MW82	180
PTMW79, UEW-155,PU/155, QA/155	Polyurethane	-	MW79	155
PTMW5, PEW.QZ(G)/155	Polyester	-	MW5	155
PTMW5, PEW.QZ(G)/155	Polyester	-	MW5	155

@ - NON-ANSI Type.

- Additional consideration is needed before being used in system thermal aging.

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

Last Updated on 2003-11-11

Magnet Wire - Component

See General Information for Magnet Wire - Component

SHANDONG ZHONGCHEN MAGNET WIRE CO LTD
LAOWA
ZHENG MU TOWN
QINZHOU, GUIZHOU 262519 CHINA

E248975

Mtl Dsg	Mark Dsg	Coat Type		ANSI Type	Temp Class
		BC	OC		
EIW	-	Polyesterimide	-	MW30	180
UEW	-	Polyurethane	-	MW79	155
				MW75#	130

#-Additional consideration is needed before this magnet wire is used for system thermal aging.

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

Last Updated on 2004-11-29

NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
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SPECIFICATION		SHEET NO.	17 OF 23
		D A T E	2009. 04. 16.
PART NAME	INVERTER TRANS	MODEL NAME	
PART NO.	GT-918	DESCRIPTION	EFD 18 X 36

ELEKTRISOLA (MALAYSIA) SDN BHD

JALAN DAMAI SATU

JANDA BAIK

28750 BENTONG, PAHANG MALAYSIA

E143312 (M)

Mtl Dsg	Mark Dsg	Coat Type		ANSI Type	Temp Class
		BC	OC		
Estersol 180	E180	Polyester- imide (solderable)	-	MW-77	180
Amidester200	A200	Polyester- imide	-	MW-74	200
Polysol-N 155	PN155	Polyurethane	nylon	MW-80 MW-28	155 (+)130
Polysol 155	P155,G155	Polyurethane	-	MW-79,MW-75	155, (+)130
Polysol 155g	Pg155	Polyurethane	-	MW75	130
Polysol 155p	Pp155,Gp155	Polyurethane	-	MW79	155
Polysol 160	P160	Polyurethane	-	MW-79	155 180,
Polysol 180	P180,G180	Polyurethane	-	MW82,MW79	(+)130
Polysol 160	P170 or G170	Polyurethane	-	MW79	155
Polysol-N 180	PN180	Polyurethane	nylon	MW83	180
Polysol P155p	P155p or G155p	Polyurethane	-	MW79	155

@ - 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, material designation or marked designation and factory identification on package or reel. Last Updated on 2007-09-11

NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
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SPECIFICATION		SHEET NO.	18 OF 23
		D A T E	2009. 04. 16.
PART NAME	INVERTER TRANS	MODEL NAME	
PART NO.	GT-918	DESCRIPTION	EFD 18 X 36

* TAPE

OANZ2

Insulating Tape-Component

DUCK SUNG HITECH CO LTD

E105147

DAESUNG BLDG

677 JAYANG-DONG

KWANG JIN-KU

SEOUL, 133-190 REPUBLIC OF KOREA

Polyester film insulating tape, acrylic adhesive, Cat. No. DTS-204(a) 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 (Polyethylene-Terapthalate) film insulating tape, synthetic rubber adhesive, Cat. No. DTS -204R %, rated 130 C.

PET (Polyethylene-Terapthalate) film insulated tape, acrylic adhesive, Cat. No. DTS-204F**#, rated 130C.

Flame retardant cotton cloth tape, rubber adhesive, Cat. No. DTS-250F**.

Flame retardant acetate cloth tape, rubber adhesive, Cat. No. DTS-232F+.

Flame retardant Aluminum foil tape, acrylic adhesive, Cat. No. DTS-800A+.

Flame retardant Aluminum foil with PET (Polyethylene-Terapthalate)film tape, acrylic adhesive, Cat. No. DTS-810+.

Flame retardant Copper foil tape, acrylic adhesive, Cat. No. DTS-820+.

Flame retardant Nickel coated Polyester Fiber tape, acrylic adhesive, Cat. No. DTS-830+.

Glass cloth insulating tape, acrylic adhesive, Cat. No. DTS-221F*, rated 155 C.

PET (polyester) film insulating tape with non-woven polyester fiber reinforcement, rubber adhesive, Cat. No. DTS-280R@, rated 130C.

PET (Polyethylene-Terapthalate) film insulating tape, acrylic adhesive, Cat. No. DTS-204B&, rated 130 C.

PET (Polyethylene-Terapthalate) film insulating tape, acrylic adhesive, Cat. No. DTS-204K*, rated 130 C.

PET (Polyethylene-Terapthalate) film insulating tape, acrylic adhesive, Cat. No. DTS-207\$, rated 130 C.

Polyimide film insulating tape, silicone base adhesive, Cat. No. DTS-701*, rated 180 C. (KAPTON TAPE)

* - Complies with flame retardant requirements when so marked.

+ - Must be marked "Flame Retardant".

- May be marked: "Film side CTI Performance Level Category PLC=3 Voltage 235, per UL 746A/ASTM D 3638", and/or "Adhesive side CTI Performance Level Category PLC=0 Voltage 600, per UL 746A/ASTM D 3638" or equivalent.

% - May be marked: "Film side CTI Performance Level Category PLC=2 Voltage 325, per UL 746A/ASTM D 3638", and/or "Adhesive side CTI Performance Level Category PLC=1 Voltage 575, per UL 746A/ASTM D 3638" or equivalent.

@ - May be marked: "Film side CTI Performance Level Category PLC=0 Voltage 600+, per UL 746A/ASTM D 3638," and/or "Adhesive side CTI Performance Level Category PLC=0 Voltage 600+, per UL 746A/ASTM D 3638" or equivalent.

& - May be marked: "Film side CTI Performance Level Category PLC=2 Voltage 260, per UL 746A/ASTM D 3638," and/or "Adhesive side CTI Performance Level Category PLC=0 Voltage 600, per UL 746A/ASTM D 3638" or equivalent.

^ - May be marked: "Film side CTI Performance Level Category PLC=2 Voltage 250, per UL 746A/ASTM D 3638," and/or "Adhesive side CTI Performance Level Category PLC=0 Voltage 600, per UL 746A/ASTM D 3638" or equivalent.

\$ - May be marked: "Film side CTI Performance Level Category PLC=2 Voltage 272, per UL 746A/ASTM D 3638," and/or "Adhesive side CTI Performance Level Category PLC=0 Voltage 600, per UL 746A/ASTM D 3638" or equivalent.

(a) - May be marked: "Film side CTI Performance Level Category PLC=2 Voltage 270, per UL 746A/ASTM D 3638," and/or "Adhesive side CTI Performance Level Category PLC=0 Voltage 600+, per UL 746A/ASTM D 3638" or equivalent.

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

Last Updated on 2007-07-10

NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
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SPECIFICATION		SHEET NO.	19 OF 23
		D A T E	2009. 04. 16.
PART NAME	INVERTER TRANS	MODEL NAME	
PART NO.	GT-918	DESCRIPTION	EFD 18 X 36

TAE HWA INDUSTRIAL CO LTD

E92677

323-80 GUNHA-RI

WOULGOT-MYUN

KIMPO-CITY, KYUNGGI-DO 415-870 REPUBLIC OF 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#.

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 Polyester (PET) film insulating tape with non-woven polypropylene fiber reinforcement and acrylic adhesive, Cat. No. H-5673N#.

Polyester film insulating tape with acrylic adhesive, Cat. No. H-5673@, rated 130C.

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

Polyimide film insulating tape with silicone adhesive, Cat. No. S-9101+, rated 200C.

+ -Complies with flame retardant requirements when so marked.

-Subjected to UL510 flammability tests only. Shall be marked "Flame Retardant"

@ - May be marked: "Film side CTI Performance Level Category PLC=0, Voltage 600, per UL 746A/ASTM D 3638" and/or "Adhesive side CTI Performance Level Category PLC=0, Voltage 600, per UL 746A/ASTM D 3638", or equivalent.

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

Last Updated on 2004-08-07

Insulating Tape - Component[See General Information for Insulating Tape - Component](#)**SHANGHAI JINZHANG INSULATING MATERIAL CO LTD**

E229667

717 ZHONG SAN NAN NO 2 RD

200032 SHANGHAI, CHINA

Polyimide film insulating tape with silicone adhesive, Cat. No. 201*, rated 180 C, Amber color.

Cat. No. 201A*, rated 220 C, Amber color.

Woven glass cloth insulating tape with silicone adhesive, Cat. No. 301*, rated 180 C, Beige (Natural) color.

* - Complies with Flame Retardant requirements when so marked.

Marking: Company name or file number "E229667" and catalog designation printed on the central paper core, or outer package.

[Last Updated](#) on 2006-09-12

NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
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CUSTOMER : GREEN C&C CO., LTD.

SPECIFICATION		SHEET NO.	20 OF 23		
		D A T E	2009. 04. 16.		
PART NAME	INVERTER TRANS	MODEL NAME			
PART NO.	GT-918	DESCRIPTION	EFD 18 X 36		

YOUNG WOO CO LTD 245, CHONG WON-RI MADO MYEON HWA SUNG KUN, KYUNGKI-DO REPUBLIC OF KOREA Polyimide (KAPTON) film insulating tape, silicone adhesive, Cat. No. YT-130+,amber, rated 200 C. Woven glass cloth insulating tape, silicone adhesive, Cat. No. YT-140+,white, rated 180C. Reinforced polyester film insulating tape, acrylic adhesive, Cat. No. YT-170+,white, rated 130C. Woven acetate cloth insulating tape, acrylic adhesive, Cat. No. YT-605+,white, rated 150C. Woven acetate cloth insulating tape, rubber based adhesive, Cat. No. YT-605R#,all colors, rated 150C. +-Complies with "Flame Retardant" requirements when so marked. #-Complies with "Flame Retardant", "Sunlight Resistant" and/or " Cold and Weather Resistant" requirements when so marked. Marking: Company name or "E203272" and catalog designation printed on the central paper core, or outer package. Last Updated on 2006-09-21	E203272
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JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD SOUTHWEST AROUND RD JINGJIANG, JIANGSU 214500 CHINA Copper foil tape , Cat. No. CP-3002*. Nonwoven cloth/polyethylene terephthalate film tape, Cat. No. WF with suffixes, rated 130C*(c)(h). Polyimide film tape, Cat. No. PF with suffixes, rated 180 C* (d)(g). (KAPTON TAPE) Polyethylene terephthalate film tape, Cat. No. CT with suffixes, yellow color, rated 130 C*(c)(e)(g) . Polyethylene terephthalate film tape , Cat. No. CT with suffixes,all colors except yellow, rated 130 C(b)(f)(g). Polyethylene terephthalate film tape, Cat. No. PZ with additional suffixes, rated 130 C*(b). *Complies with flame retardant requirements when so marked. (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 60112,4rd Edition 2003 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. Last Updated on 2007-01-29	E165111
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SPECIFICATION		SHEET NO.	21 OF 23
		D A T E	2009. 04. 16.
PART NAME	INVERTER TRANS	MODEL NAME	
PART NO.	GT-918	DESCRIPTION	EFD 18 X 36

* SILICONE

Plastics - Component

WACKER CHEMIE AG
HANNS-SEIDEL-PLATZ 4
81737 MUNICH, GERMANY

E75704

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	RTI Elec	Mech Imp	Str	H V T R	D 4 9 5	C T I
Silicone "Room Temperature Vulcanizing" (RTV), sealant and adhesive, "ELASTOSIL®", furnished as paste.											
N 9132	WT	1.8	V-1	-	-	105	-	105			
	GY	1.8	V-0	-	-	105	-	105			
	WT, GY	6	V-0	-	-	105	-	105			
Silicone "Room Temperature Vulcanizing" (RTV), "ELASTOSIL®", furnished as paste.											
N 9132S (a)	NC	1.5-1.8	V-0	-	-	105	105	105			
N 9132S (d)	GY	1.5-1.8	V-0	-	-	105	105	105			
Silicone "Room Temperature Vulcanizing" (SI) (RTV), "ELASTOSIL®", furnished as paste.											
N2034 (d)	GY	1.8	V-0	-	-	105	105	105			
N2189 (d)	BK	1.8	V-0	-	-	105	105	105			
N2197 (d)	GY	2.3	V-0	-	-	105	105	105			
N9135(d)	GY	1.74-2.02	V-0	-	-	105	105	105			

(a) - applied to 1.80 mm minimum thickness aluminum

(d) - Flame rating applies only when added to 1.50 mm minimum thick aluminum substrate.

(x) - any number from 10 to 80 indicating hardness

(y) - any number from 20 to 70 indicating hardness

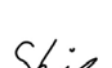
Marking: Company name and material designation on container, wrapper or finished part.

[Last Updated on 2008-02-11](#)

DOW CORNING TORAY SILICONE CO LTD
AIG BLDG
1-1-3 MARUNOUCHI
CHIYODA-KU
TOKYO 100-0005, JAPAN

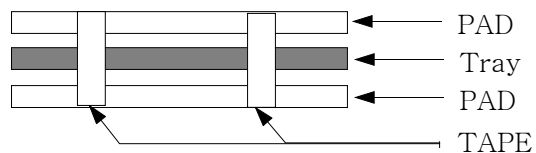
E55519

Material Dsg	Color	Min. Thk mm	Flame Class	H W I	H A I	RTI Elec	Mech Imp	Str	H V T R	D 4 9 5	C T I
SE9189L GRAY RTV	GY	0.75	V-0	3	-	105	-	105	-	-	-
		1.5	V-0	0	-	105	-	105	-	-	-
SE9189L WHITE RTV	NC, WT	0.75	V-0	-	-	105	-	105	-	-	-

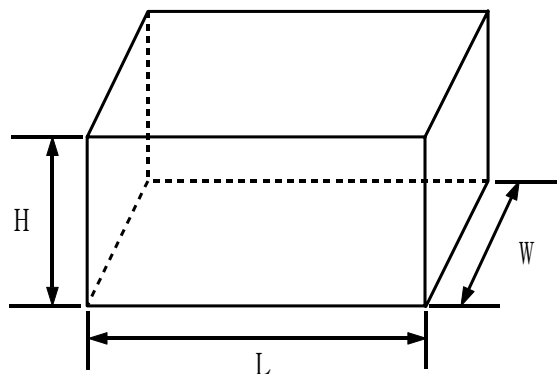
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SPECIFICATION		SHEET NO.	22 OF 23
		D A T E	2009. 04. 16.
PART NAME	INVERTER TRANS	MODEL NAME	
PART NO.	GT-918	DESCRIPTION	EFD 18 X 36

※ PACKING SPECIFICATIONS

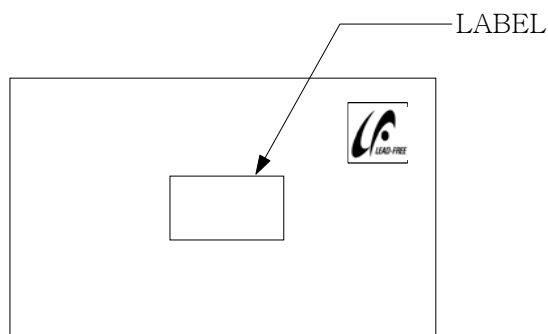
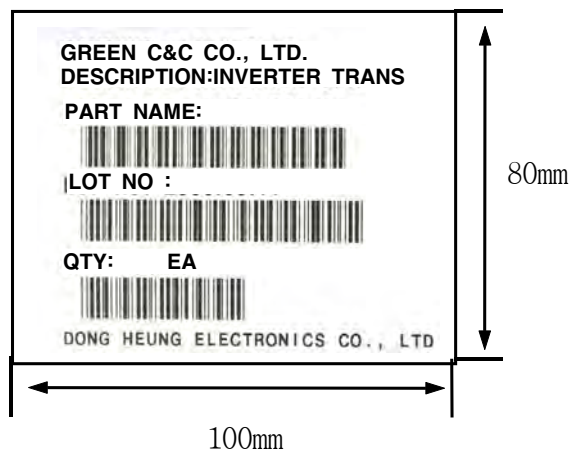


※ BOX SPECIFICATIONS (UNIT:mm)



NO	L	W	H
①	400	280	165
2	400	290	320
3	555	350	280

※ LABEL SPECIFICATIONS



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CUSTOMER : GREEN C&C CO., LTD.

SPECIFICATION		SHEET NO.	23 OF 23
		D A T E	2009. 04. 16.
PART NAME	INVERTER TRANS	MODEL NAME	
PART NO.	GT-918	DESCRIPTION	EFD 18 X 36

* MATERIALS WITHSTAND AT TEMPERATURE

ITEM	BOBBIN	WIRE		POLYIMIDE TAPE	SILICONE
STANDARD	94V-0	130℃ (Pri.)	155℃ (Sec.)	180℃	94V-0
1	OK	OK	OK	OK	OK
2	OK	OK	OK	OK	OK
3	OK	OK	OK	OK	OK
4	OK	OK	OK	OK	OK
5	OK	OK	OK	OK	OK
6	OK	OK	OK	OK	OK
7	OK	OK	OK	OK	OK
8	OK	OK	OK	OK	OK
9	OK	OK	OK	OK	OK
10	OK	OK	OK	OK	OK

NO	REVISION	DATE	CHECK	DRAWN	CHECKED	APPROVED
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INSPECTION REPORT

CODE NO	GT-918	DATE OF MEASUREMENT	2009. 04. 16.								
PART NAME	INVERTER TRANS	TEMPERATURE	20 °C 30 %								
TYPE OF SET		TESTING INSTRUMENT	LCR-METER HP-4284A WHEATSTONE BRIDGE 3220(HIOKI)								
DONGHEUNG TYPE	EFD 18 x 36										
SAMPLE QUANTITY	10PCS	APPROVED BY	<i>Slit</i>								
CUSTOMER	GREEN C&C	CHECKED BY	<i>ji</i>								
MANUFACTURER	DONGHEUNG	INSPECTED BY	<i>js</i>								
ITEM	L			D.C.R					누설L값 (10KHz/1V)		
	(4-1)	(3-5)	(6-2)	(4-1)	(3-5)	(6-2)			(4-1)	(3-5)	(6-2)
STANDARD	760uH MIN	1.9H MIN	1.9H MIN	0.36Ω MAX	1.85KΩ ± 12%	1.85KΩ ± 12%			67uH REF.	443mH ± 7%	443mH ± 7%
1	1470.00	2.50	2.50	0.266	1.85	1.85			67.30	439.25	447.50
2	1451.00	2.44	2.46	0.267	1.85	1.85			67.70	443.10	443.50
3	1320.00	2.32	2.32	0.266	1.85	1.85			67.38	445.27	445.27
4	1601.00	2.55	2.54	0.266	1.86	1.85			67.25	446.28	442.28
5	1520.00	2.51	2.51	0.267	1.85	1.86			67.46	447.32	446.25
6	1532.00	2.51	2.52	0.267	1.85	1.84			66.98	446.25	445.48
7	1438.00	2.48	2.48	0.266	1.86	1.85			67.02	443.25	441.25
8	1428.00	2.48	2.47	0.266	1.85	1.85			67.32	441.25	438.60
9	1390.00	2.41	2.41	0.266	1.85	1.85			67.33	441.48	447.28
10	1501.00	2.46	2.47	0.267	1.84	1.85			67.42	445.28	446.54
AVG	1465.10	2.47	2.47	0.266	1.85	1.85			67.32	443.87	444.40
MAX	1601.00	2.55	2.54	0.267	1.86	1.86			67.70	447.32	447.50
MIN	1320.00	2.32	2.32	0.266	1.84	1.84			66.98	439.25	438.60
R	281.00	0.23	0.22	0.001	0.02	0.02			0.72	8.07	8.90
REMARKS											
영화 코어 사용											
DONG HEUNG ELECTRONICS CO., LTD.											



DATA DISPLAY GROUP

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