




RECORD ALTERATION

SPECIFICATION		PART NO		SUMIDA TYPE IV004 (IV25185/T)	
ALTERED SYMBOL	ALTERED DATE	REVISED DESCRIPTION	ALTERED CONTENT FIRST REV		REV SIGNATURE 1A JASON YU

*** Altered symbol : Altering in alphabetical order which indicated in the end of specification number or under it.




CHK	CHK	DRG	SAMPLE NO : H05-400-5051									
			SPEC NO: 1/17									
			TWS-400-8940									
			(A)	B	C	D	E	F	G	H	I	J

TAIWAN SUMIDA ELECTRIC CO., LTD.

SPECIFICATION	TYPE IV004 (IV25185/T)
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CHK	CHK	DRG	SAMPLE NO : H05-400-5051
			SPEC NO: 2/17
			TWS-400-8940

TAIWAN SUMIDA ELECTRIC CO., LTD.

SUMIDA CODE**DC-AC****PART NO :****INVERTER UNIT SPECIFICATION****TYPE : IV004 (IV25185/T)****1. Application :**

This is a DC-AC inverter unit to drive CCFT backlight lamp

Lamp used : ACER 15" TFT for 2 CCFL lamp

2. Connector pin assignment :

Input : CN1
 Model No. : S5B-PH-SM
 Supplier : JST




PIN	SYMBOL	DESCRIPTION
1	Vin	Supply Voltage (+12V)
2,4	GND	Ground
3	VADJ	Brightness Control (0 ~5V)
5	ON/OFF	INVERTER LAMP ON/OFF (5V) "High" ON , "Low" OFF

Output : CN2,3
 Model No. : SM02(8.0)BHSITB OR 88222-0200
 Supplier : JST OR ACES

PIN	SYMBOL	DESCRIPTION
1	H.V Output	HIGH VOLTAGE
2	H.V Return	RETURN

3. Weight :

Approximately 31.5 gm.

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			SPEC NO: 3/17 TWS-400-8940

TAIWAN SUMIDA ELECTRIC CO., LTD.

**DC-AC
INVERTER UNIT SPECIFICATION**

**TYPE
IV004 (IV25185/T)**

4. Electrical characteristics :




$$V_{in} = 12V \pm 5\%$$

**4-1: MAX BRIGHTNESS (V_{adj}: 0V , LOAD:76KΩ X2)
(Room temperature 25°C ± 3 °C)**

	SYMBOL	MIN	TYP	MAX	UNIT	REMARK
Input voltage	V _{in}	----	12	----	V	V _{in} = 12 V LOAD=76KΩ X2
Input current	I _{in}	400	550	700	mA	
Frequency	f	45	50	55	KHZ	
Output current	I _{out}	5.5	6.0	6.5	mArms	No Load
Output open voltage	V _{open}	1400	----	1800	Vrms	

**4-2: MIN BRIGHTNESS (V_{adj}: 5.0V , LOAD:76KΩ X2)
(Room temperature 25°C ± 3 °C)**

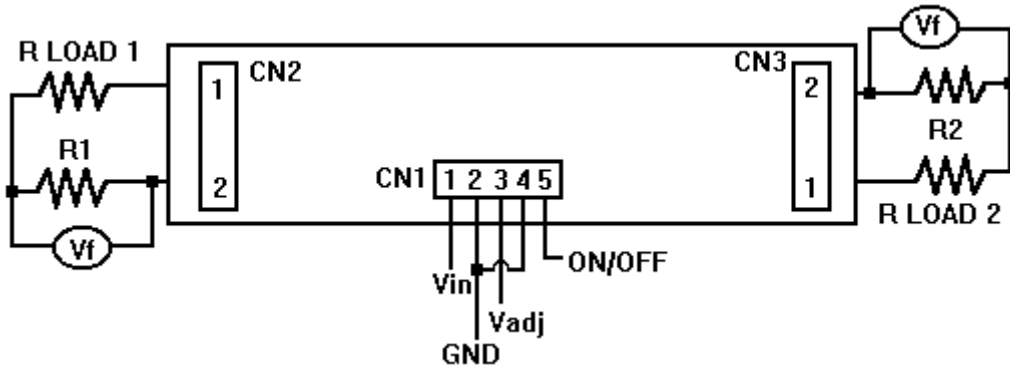
	SYMBOL	MIN	TYP	MAX	UNIT	REMARK
Input voltage	V _{in}	----	12	----	V	V _{in} = 12 V LOAD=76KΩ X2
Input current	I _{in}	100	160	310	mA	
Output current	I _{out}	2.5	3.0	3.5	mArms	

CHK	CHK	DRG	SAMPLE NO : H05-400-5051
			SPEC NO: 4/17
			TWS-400-8940

**DC-AC
INVERTER UNIT SPECIFICATION**

**TYPE
IV004 (IV25185/T)**

5. Test circuit :



$V_{in} = 12V$, Load_{1,2} = 76K Ω , R_{1,2}=100 Ω

6. Measuring instruments :

**DC POWER SUPPLY : MODEL GPC-3030D GW
DC AMPERE METER : TYPE 2051 CLASS 1 YOKOGAWA
AC AMPERE METER : MODEL 2016 YOKOGAWA
DIGITAL MULTI-METER : 856C LEADER**

7. Environmental condition




STORAGE TEMPERATURE RANGE: -25 $^{\circ}C$ ~ +70 $^{\circ}C$

OPERATING ENVIRONMENTALTEMPERATURE RANGE: 0 $^{\circ}C$ ~ + 50 $^{\circ}C$

STORAGE ENVIRONMENTAL HUMIDITY : 90% MAX.(WITHOUT ICE OR DEW.MAX.WET-BULB TEMPERATURE IS 35 $^{\circ}C$)

OPERATING ENVIRONMENTAL HUMIDITY:85% MAX.(WITHOUT ICE OR DEW,MAX.WET-BULB TEMPERATURE IS 35 $^{\circ}C$)

NOTE:ABOVE MENTIONED TEMPERATURE & HUMIDITY MEAN THE ONES OF THE POSITION WHERE THE UNIT PUT,BUT NOT THE ONES OF THE ENVIRONMENT WHERE THE SYSTEM WITH THIS UNIT WORKS.

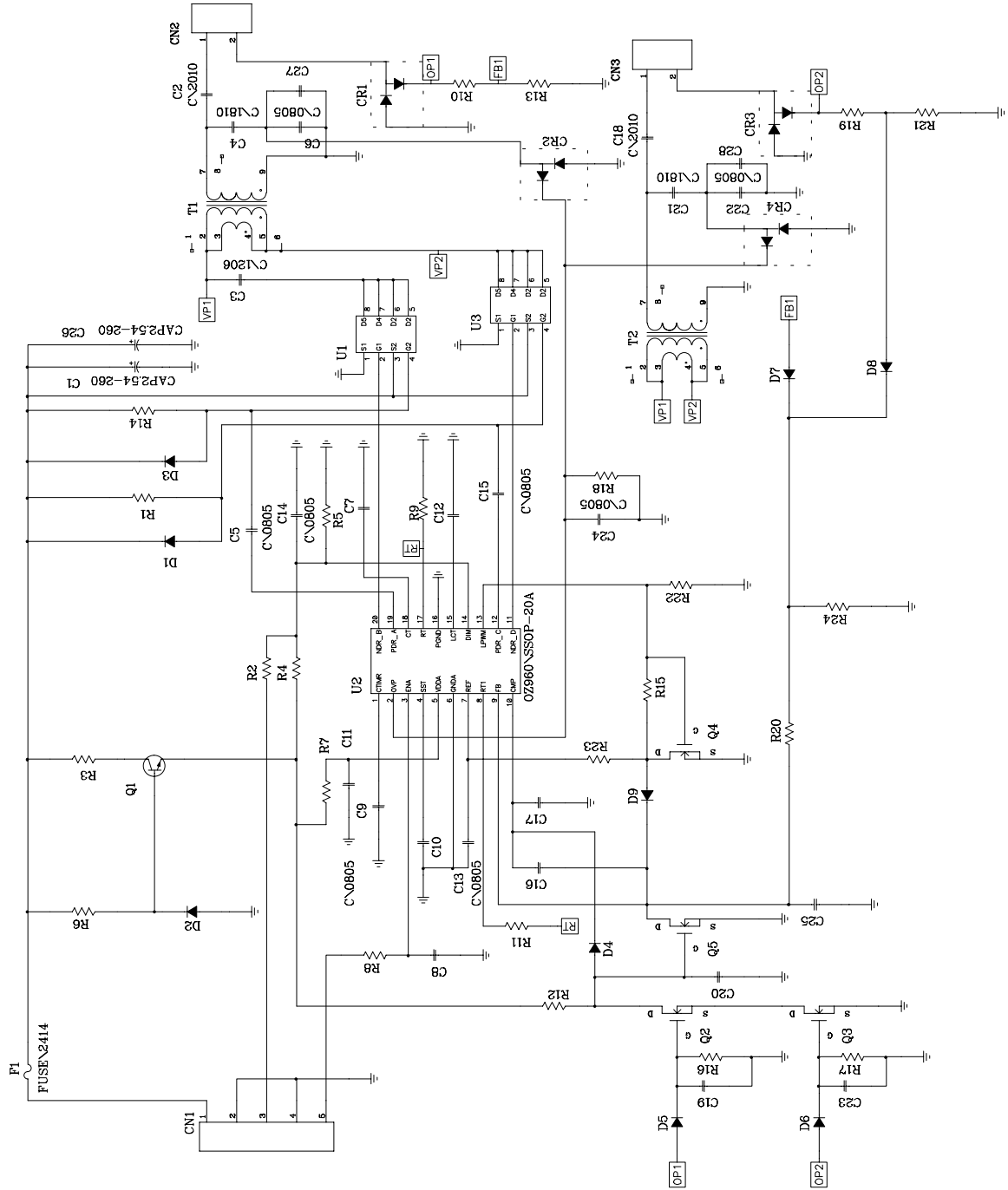
CHK	CHK	DRG	SAMPLE NO : H05-400-5051
			SPEC NO: 5/17
			TWS-400-8940

SPECIFICATION

TYPE

IV004 (IV25185/T)

CIRCUIT



CHK

CHK

DRG

SAMPLE NO H05-400-5051



SPEC NO 6/17

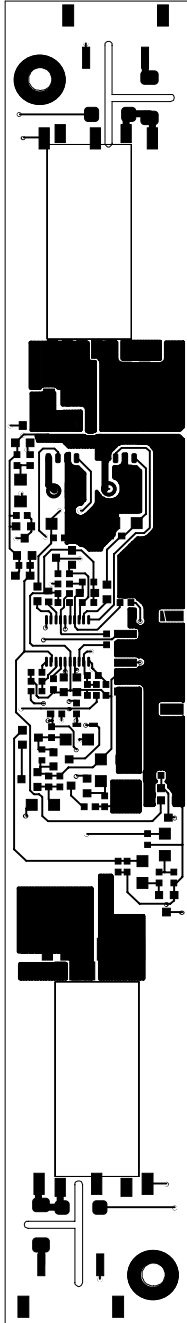
TWS-400-8940

SPECIFICATION

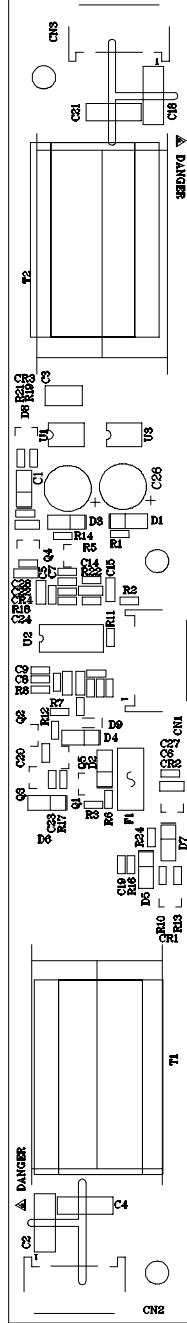
TYPE

IV004 (IV25185/T)

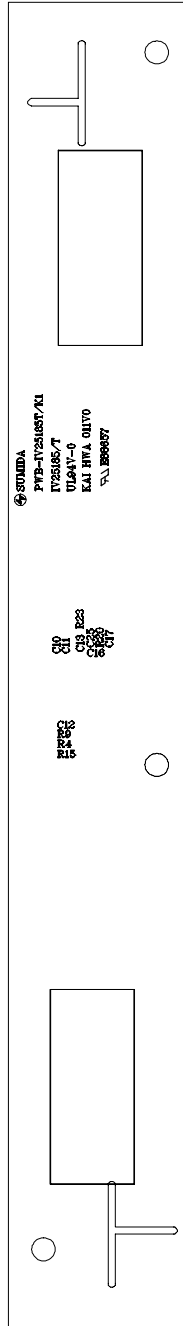
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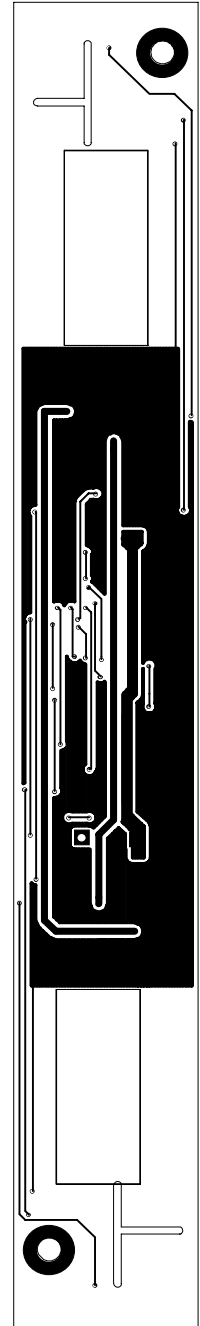
#TOP SIDE



#TOP SILK




#BOTTOM SILK



#BOTTOM SIDE




CHK	CHK	DRG	SAMPLE NO	H05-400-5051
			SPEC NO	8/17 \
			TWS-400-8940	

SPECIFICATION			TYPE : IV004 (IV25185/T)	
Part Ref.	Part Type	Material	QTY	Remark
R1,14	RESISTOR	5.1K Ω (0603) \pm 1%	2	SYNTON,YAGEO,PHILIPS
R2		324K Ω (0603) \pm 1%	1	SYNTON,YAGEO,PHILIPS
R3,7		22 Ω (0603) \pm 1%	2	SYNTON,YAGEO,PHILIPS
R4		360K Ω (0603) \pm 1%	1	SYNTON,YAGEO,PHILIPS
R5		110K Ω (0603) \pm 1%	1	SYNTON,YAGEO,PHILIPS
R6		10K Ω (0603) \pm 1%	1	SYNTON,YAGEO,PHILIPS
R8,12		100K Ω (0603) \pm 1%	2	SYNTON,YAGEO,PHILIPS
R9		62K Ω (0603) \pm 1%	1	SYNTON,YAGEO,PHILIPS
R10,19		680 Ω (0603) \pm 1%	2	SYNTON,YAGEO,PHILIPS
R11		220K Ω (0603) \pm 1%	1	SYNTON,YAGEO,PHILIPS
R13,21		510 Ω (0603) \pm 1%	2	SYNTON,YAGEO,PHILIPS
R15		OPEN	1	
R16,17,18		1M Ω (0603) \pm 1%	3	SYNTON,YAGEO,PHILIPS
R20		51K Ω (0603) \pm 5%	1	SYNTON,YAGEO,PHILIPS
R22		510K Ω (0603) \pm 1%	1	SYNTON,YAGEO,PHILIPS
R23		18K Ω (0603) \pm 1%	1	SYNTON,YAGEO,PHILIPS
R24		15K Ω (0603) \pm 1%	1	SYNTON,YAGEO,PHILIPS
C1,26	CAPACITOR	25MV/100u(6.3X7) 105 $^{\circ}$ C	2	SANYO
C2,18		0 Ω (2010) \pm 5%	2	SYNTON,YAGEO,PHILIPS
C3		4.7uf,25V,(X7R, \pm 10%,1210)	1	TAIYOYUDEN
C4,21		12PF/3KV,SMD	2	MURATA,PHILIPS,HEC
C5,15		0.047uf,25V, (X7R, \pm 10%,0805)	2	MURATA, AVX,PHILIPS TAIYOYUDEN,TDK
C6,22		0.018uf,50V, (X7R, \pm 10%,0805)	2	MURATA, AVX,PHILIPS TAIYOYUDEN,TDK
C7		220P,50V, (NPO, \pm 5%,0603)	1	MURATA, AVX,PHILIPS TAIYOYUDEN,TDK
C8,16,20		0.01uf,50V,(X7R, \pm 10%,0603)	3	MURATA, AVX,PHILIPS TAIYOYUDEN,TDK
C9		1uf,10V, (Y5V,+80,-20%,0603)	1	MURATA, AVX,PHILIPS TAIYOYUDEN,TDK
C10		0.47uf,16V,(Y5V,+80,-20%,0603)	1	MURATA, AVX,PHILIPS TAIYOYUDEN,TDK
C11		2.2uf,16V, (Y5V,+80,-20%,0805)	1	MURATA, AVX,PHILIPS TAIYOYUDEN,TDK
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			SPEC NO	9/17
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SPECIFICATION	TYPE : IV004 (IV25185/T)
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Part Ref.	Part Type	Material	QTY	Remark
C12		6800P,50V,(X7R,±10%,0603)	1	MURATA, AVX,PHILIPS TAIYOYUDEN,TDK
C13,14,24		0.1uf,50V,(X7R,±10%,0805)	3	MURATA, AVX,PHILIPS TAIYOYUDEN,TDK
C17		1500P,50V, (X7R,±10%,0603)	1	MURATA, AVX,PHILIPS TAIYOYUDEN,TDK
C19,23		0.22uf,16V, (Y5V,+80,-20%,0603)	2	MURATA, AVX,PHILIPS TAIYOYUDEN,TDK
C25		OPEN	1	
C27,28		1000P,50V, (X7R,±10%,0603)	2	MURATA, AVX,PHILIPS TAIYOYUDEN,TDK
Q1	TRANSISTOR	MMST3904 OR MMBT3904	1	ROHM,FAIRCHILD
Q2,3,4,5		RK7002	4	ROHM
D1,3	DIODE	RLZ5.1B-TE11	2	ROHM
D2		RLZ5.6C-TE11	1	ROHM
D4		OPEN	1	
D5,6,7,8		RLS4148-TE11	4	ROHM
D9		RB751V-40	1	ROHM
CR1,2,3,4		DAN217	4	ROHM
CN1	CONNECTOR	S5B-PH-SM	1	JST
CN2,3		SM02(8.0)-BHS1TB OR 88222-0200	2	JST ACES
F1	FUSE	R451,2A	1	LITTEL
U1,3	IC	TPC8401	2	TOSHIBA
U2		OZ960	1	O2 MICRO
PWB	PWB	PWB-IV25185T/K1	1	KAI HWA
T1,2	TRANSFORMERS	[COIL-25185TDZ	2	SUMIDA
LABEL	LABEL	LABEL-8X16Z	1	MARKING PART NO DATA CODE 1A

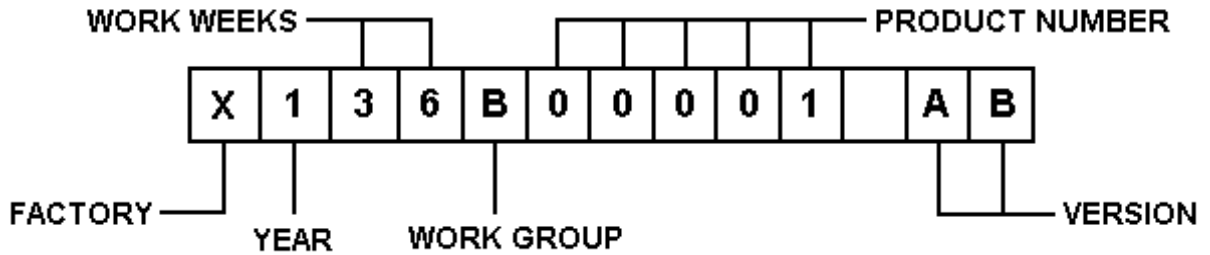
CHK	CHK	DRG	SAMPLE NO H05-400-5051
			SPEC NO 10/17
			TWS-400-8940

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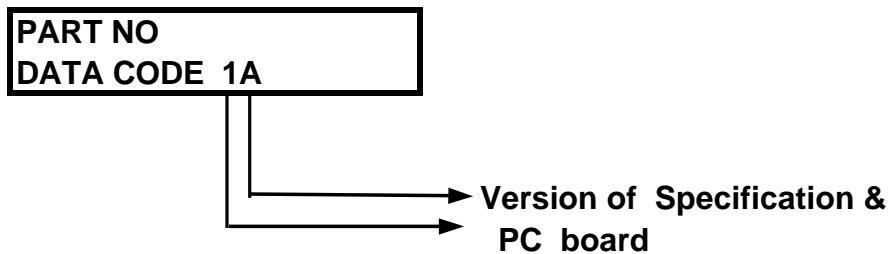
SPECIFICATION	TYPE IV004 (IV25185/T)
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Special events

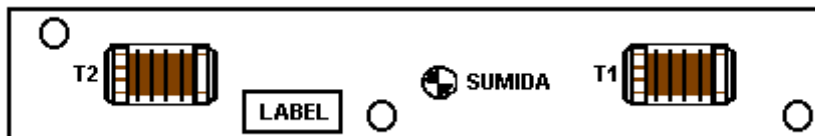
1. Every finished good should be stamped DATA CODE



2. Label should be pasted on the back side to clarify this type, for example



3. Label position

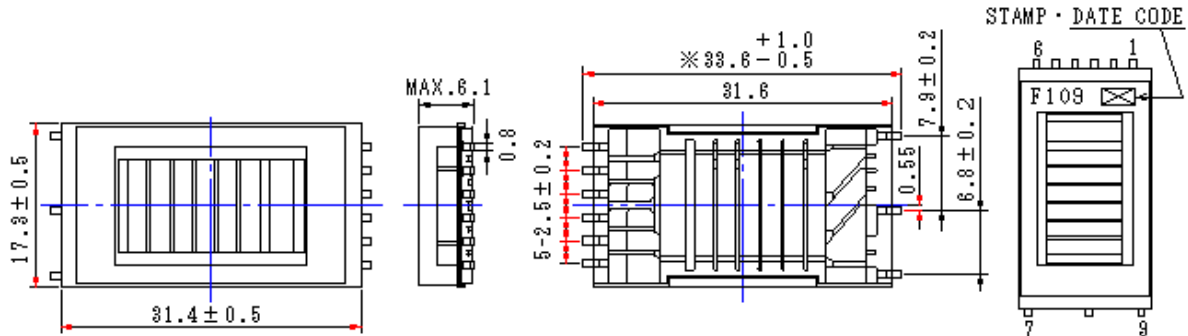


CHK	CHK	DRG	SAMPLE NO H05-400-5051
			SPEC NO 11/17 TWS-400-8940

TAIWAN SUMIDA ELECTRIC CO., LTD.

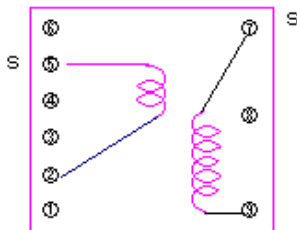
	SPECIFICATION	CUSTOMER:
	SUMIDA TYPE C10H175/TW	PART NO. [COILL-25185TDZ

1. DIMENSION (UNIT mm)



- * DIMENSION DOES NOT INCLUDE SOLDER USED ON COIL.
- * DIMENSION WITHOUT TOLERANCE ARE APPROX.
- * INCLUDE PART OF ADHESIVE.

2. CONNECTION (BOTTOM)



3. TURNS, WIRE AND CORE

	5-2		7-9	
TURNS	25T		2240T	
WIRE	0.24 UEW		0.04 UEW	
CORE	EP: NC2H		OR EQUIVALENT	

4. ELECTRICAL CHARACTERISTICS

	(7 - 9)	MEASURING CONDITION
1. INDUCTANCE	750 mH ± 25 % WITHIN	1 kHz
2. D.C.R	850 Ω ± 15 % WITHIN	20 °C

5. NOTE

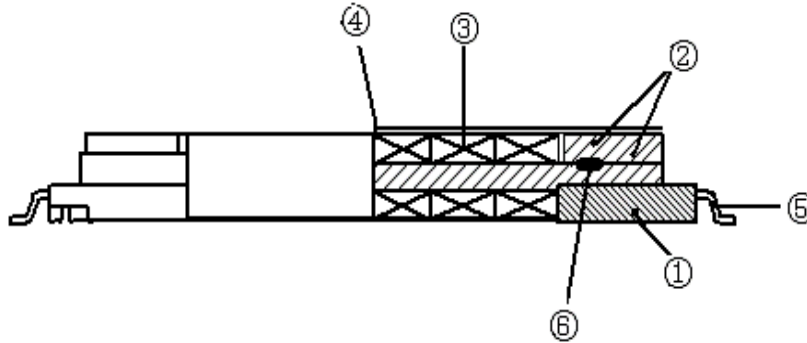
- * WHENEVER YOU USE THIS COIL, PLEASE PUT THE SOLDER TO ALL TERMINAL.
- * (3-4) TO BE SHORTED WHEN USING.
- * THE MAX.OPEN VOLTAGE BETWEEN (7-9) IS 1800V_{rms}, PLEASE PAY ATTENTION WHEN USING.
- * RECOMMENDED REFLOW CONDITION TO BE ACCORDING TO S-074-5003.

		SUMIDA CODE		SAMPLE NO	H05-400-5051
CHK.	CHK.	DRG.		DRG. NO.	
					TWS-400-8940




SPECIFICATION

TYPE
CIOH175/TW

STRUCTURE



	PART NAME	MATERIAL	PRODUCTION MANUFACTURE
1	BASE	LCP E5008L UL FILE NO E54705	SUMITOMO CHEMICAL CO.,LTD.
2	CORE	FERRITE CORE NC2H OR EQUAL.	NIPPON CERAMIC CO.LTD
3	WIRE	POLYURETHANE ENAMELED COPPER WIRE UL FILE NO E174837 UL FILE NO E82222(S) UL FILE NO E79029(S)	JUNG SHING WIRE.CO,LTD SUMITOMO ELECTRIC IND.CO,LTD. TOTOKU E.LECTRIC CO,LTD
4	COVER	LCP E6008 UL FILE NO E54705(M)	SUMITOMO CHEMICAL CO.,LTD
5	Terminal	PHOSPHOR BRONIE (SOLDER PALTED)	SUMIDA ELECTRONIC CO.LTD
6	SPACER	NO. TRK631S UL FILE NO E56086	TERAOKA CORP

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			SPEC NO 13/17
			TWS-400-8940

TAIWAN SUMIDA ELECTRIC CO., LTD.

GENERAL CHARACTERISTICS

TYPE

C10H175/TW

1. STORAGE TEMPERATURE RANGE : -40 ~ +100°C
2. OPERATING TEMPERATURE RANGE : -20 ~ +100°C (CONTAIN HEATING COIL)
3. EXTERNAL APPEARANCE : THERE SHOULD BE NO CRACK, FRAGMENT, STAIN, BEND, RUST AND REMARKABLY DAMAGES WHEN CHECKED THROUGH THE EYES.
4. FIXING STRENGTH : NO APPARENT AT 5.0N(0.51kgf) FROM THREE ORIENTATIONS (PUSH) FOR 80±5 SECONDS. WHEN FIXED BY SOLDER ON THE COPPER PLATE.
5. HEAT ENDURANCE TEST : REFER TO S-074-5002.
6. INSULATING RESISTANCE : OVER 100MΩ AT 500V D.C. BETWEEN COIL-COIL, COIL-CORE.
7. DIELECTRIC STRENGTH : NO APPARENT AT 2500V_{rms}(50Hz/60Hz) A.C. FOR 1 MINUTE BETWEEN COIL-COIL, COIL-CORE.
8. HUMIDITY TEST : INDUCTANCE DEVIATION WITHIN ± % AFTER PUTTING THE COIL INTO THE ENVIRONMENT OF 90~95% RELATIVE HUMIDITY AND TEMPERATURE OF 40±2°C FOR 96 HOURS AND 1 HOUR DRYING UNDER NORMAL CONDITION.
9. VIBRATION TEST : INDUCTANCE DEVIATION WITHIN ± % AFTER VIBRATION FOR 1 HOUR. IN EACH OF THREE ORIENTATIONS AT SWEEP VIBRATION (10~55~10Hz) WITH 1.5mm P-P AMPLITUDE.
10. SHOCK TEST : INDUCTANCE DEVIATION WITHIN ± % TESTED IN EACH OF THE THREE ORIENTATIONS VERTICALLY FOR 1 TIME AT THE SHOCK ACCELERATION OF 981m/s²(100G), USING RUBBER BLOCK SHOCK TESTING MACHINE.
11. TEST CONDITION : UNLESS OTHERWISE SPECIFIED, TEST SHOULD BE CONDUCTED UNDER NORMAL TESTING CONDITION OF TEMPERATURE OF 20±2°C AND RELATIVE HUMIDITY OF 65±5%. JUDGMENT TEST MAY BE CONDUCTED IN THE RANGE OF TEMPERATURE OF 5~35°C AND RELATIVE HUMIDITY OF 45~85% PROVIDED THAT THERE ARISES SOME DOUBT.
12. INDICATION : PART NUMBER AND LOT NUMBER SHALL BE STAMPED ON THE PLACE AS SHOWN IN THE ABOVE DRAWING.
13. PACKING : THE SMALLEST PACKING WITH PART NO INDICATED TO BE USED. PACKING MAY CONSIDERED TO AVOID DAMAGE CAUSED DURING TRANSPORTATION AND STORAGE.

SAMPLE NO H05-400-5051

CHK.	CHK.	DRG.

DRG. NO.

14/17




TWS-400-8940

SUMIDA ELECTRIC CO.,LTD.

SPECIFICATION	TYPE IV004 (IV25185/T)
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7 · GENERAL CHARACTERISTICS (THIS IS TEMPORARY CHARACTERISTICS,THE FORMAL RESULT WILL BE REACHED AFTER FINISHING THE TEST)

- 7-1. HIGH TEMPERATURE STORAGE TEST :NO STRUCTURE AND ELECTRIC DEFECTS CAN BE FOUND AFTER 240±12 HOURS STORAGE UNDER THE CONDITION OF TEMPERATURE OF 60±2℃,AND 1 HOUR STORAGE UNDER ROOM AMBIENT CONDITIONS AFTER WHICH UNIT IS TESTED WITHIN THE NEXT 2 HOURS.
- 7-2. LOW TEMPERATURE STORAGE TEST :NO STRUCTURE AND ELECTRIC DEFECTS CAN BE FOUND AFTER240±12 HOURS STORAGE UNDER THE CONDITION OF TEMPERATURE OF -20±3℃,AND 1 HOUR STORAGE UNDER ROOM AMBIENT CONDITIONS AFTER WHICH UNIT IS TESTED WITHIN THE NEXT 2 HOURS.
- 7-3. HIGH TEMPERATURE OPERATING LIFE TEST :NO STRUCTURE AND ELECTRIC DEFECTS CAN BE FOUND AFTER 240±12 HOURS TEST UNDER THE CONDITION OF TEMPERATURE OF 50±2℃ IN OPERATING STATE,AND 1 HOUR OPERATING UNDER ROOM AMBIENT CONDITIONS AFTER WHICH UNIT IS TESTED WITHIN THE NEXT 2 HOURS.
- 7-4. LOW TEMPERATURE OPERATING LIFE TEST :NO STRUCTURE AND ELECTRIC DEFECTS CAN BE FOUND AFTER 240±8 HOURS TEST UNDER THE CONDITION OF TEMPERATURE OF 0±3℃ IN OPERATING STATE,AND 1 HOUR OPERATING UNDER ROOM AMBIENT CONDITIONS AFTER WHICH UNIT IS TESTED WITHIN THE NEXT 2 HOURS.
- 7-5. HUMIDITY TEST :NO STRUCTURE AND ELECTRIC DEFECTS CAN BE FOUND AFTER 240±8 HOURS TEST UNDER THE CONDITION OF RELATIVE HUMIDITY OF 90~95% AND TEMPERATURE OF 40±2℃, AND 1 HOUR STORAGE UNDER ROOM AMBIENT CONDITIONS AFTER WHICH UNIT IS TESTED WITHIN THE NEXT 2 HOURS.
- 7-6. SHOCK TEST : NO STRUCTURE AND ELECTRIC DEFECTS AFTER THE TEST WITH GOM-BLOCK SHOCK TESTING MACHINE, 3 TIMES IN EACH OF THE THREE PERPENDICULAR AXIS DIRECTIONS. THE SHOCK ACCELERATION IS 735.75m/s² (75G).
- 7-7. VIBRATION TEST :NO STRUCTURE AND ELECTRIC DEFECTS AFTER 1 HOUR SWEEPING VIBRATION IN EACH THREE DIRECTIONS, NAMELY, FORWARD AND BACKWARD, UP AND DOWN,RIGHT AND LEFT.THE FREQUENCY IS 10~55Hz AND THE AMPLITUDE OF 1 MINUTE CYCLE IS 1.5mm PP.
- 7-8. THERMAL SHOCK TEST : SPECIMEN IS SUBJECT TO -20±3℃ FOR 30 MINUTES HEARAFTER IT IS SUBJECT TO 70±2℃ FOR 30 MINUTES.(TRANSITION TIME IS 1 MINUTE MAXIMUM.)THIS CONSTITUES ONE CYCLE.AFTER 100 CYCLES,IT IS THEN LEFT IN ROOM TEMPERATURE FOR 1 HOUR.AFTER WHICH SPECIMEN IS TESTED WITHIN THE NEXT 2 HOURS AND THE DIFFERENCE FORM INITIAL RESULT CHECKED.THERE SHALL BE NO STRUCTURE AND ELECTRIC DEFECTS.

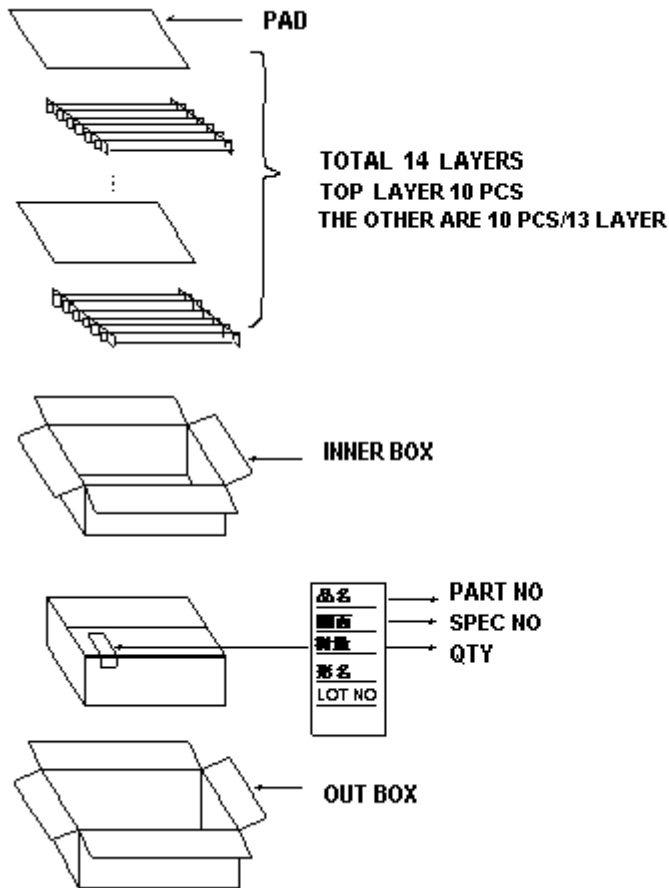
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			15/17 TWS-400-8940

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SPECIFICATION	TYPE IV004 (IV25185/T)
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9 · PACKING

PRODUCT TO BE PUT INTO ANTI-STATIC POLYESTER BAG THEN PACKED INTO CARTON BOX,
OUT OF WHICH LABELLED SHOWING PART NO., SPEC.NO., LOT NO., etc. (140PCS/BOX)



CHK	CHK	DRG	SAMPLE NO H05-400-5051
			SPEC NO 16/17
			TWS-400-8940

TAIWAN SUMIDA ELECTRIC CO., LTD.

SPECIFICATION			TYPE IV004 (IV25185/T)	
MATERIALS UL FILE				
	Part Name	Material	PART NO	Production Manufacture
1	PRINTED WIRING BOARD	FR-4 011V0 94V-0 UL File NO. E88657	IV25185T	KAI HWA CIRCUITS INDUSTRIAL
2	CONNECTOR CN1	LR20812 94V-0 UL FILE NO E60389(M)	S5B(PH)	JST
	CN2	LR20812 94V-0 UL FILE NO E60389 OR TE250F6 94V-0 UL FILE NO E119177	SM02 88222	JST ACES
3	FUSE	CLASS 142201 UL FILE NO.E10480	R451	LITTEL
4	T1,2 Transformer BASE	E5008L 94V-0 E5008 UL FILE NO E54705	CIOH175	SUMITOMO BAKELITE CO.,LTD
5	T1,2 Transformer COVER	E5008L 94V-0 E5008 UL FILE NO E54705	CIOH175	SUMITOMO BAKELITE CO.,LTD
6	T1,2 Transformer WIRE	POLYURETHANE ENAMELED COPPER WIRE UL FILE NO E174837 UL FILE NO E82222(S) UL FILE NO E79029(S)	0.22SEUW 0.04SFW	JUNG SHING WIRE.CO,LTD SUMITOMO ELECTRIC IND.CO,LTD TOTOKU E.LECTRIC CO,LTD
7	T1 Insulating Tape t=0.055mm 2 layers	Polyester Film Tape 480 UL File NO.E56086	TRK480	TERAOKA SEISAKUSHO CO.,LTD.
CHK	CHK	DRG	SAMPLE NO	H05-400-5051
			SPEC NO	17/17
			TWS-400-8940	

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