TO : UNISERVICE

NO : PRJ-05492

DATE: 2023-02-06

< FINAL . REVISED >

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

DEVICE SPECIFICATION FOR

HIGH VOLTAGE TRANSFORMER.

MODEL NAME (PART NO.)

SHV-1830EC-CC(G)

UNISERVICE PART CODE

■ CUSTOMER'S RECEIVE

DATE :

RECEIVED BY		CHECKED BY	ISSUED BY	IN CHARGE OF PART

■ SUPPLIER

PRESENTED BY : DIGITAL POWER COMMUNICATIONS CO., LTD.

DRAWN BY :

DESIGNED BY :

CHECKED BY :

APPROVED BY :

SPECIFICATION FOR H.V.T	PART NUMBER	CUSTOMER
PRJ-05492	SHV-1830EC-CC(G)	UNISERVICE

1. SCOPE

THIS SPECIFICATION APPLIES TO TRANSFORMER PART NO. SHV-1830EC-CC(G)
FOR USING IN MICROWAVE OVEN WHICH IS MANUFACTURED BY UNISERVICE

2. APPLICABLE SAFETY STANDARD : IEC.PUB 335-25 & 335-1 CLASS 1

3. APPEARANCE AND CONSTRUCTION.

3.1 APPEARANCE : TRANSFORMER SHALL BE FREE FROM SUCH DEFICIENCIES AS DEFORMATION, CRACK OR RUST IN APPEARANCE.

3.2 TYPE, DIMENSION AND MARKING : SEE ATTACHED CONSTRUCTION DRAWING NUMBER PRJ-05492

3.3 CLASSIFICATION OF TERMINAL : #250 FASTON TABS & RECEPTACLES.

4. MECHANICAL PERFORMANCE.

4.1 COMPRESSED STRENGTH OF TERMINALS : TERMINALS SHALL BE WITHSTAND WITHOUT BREAKING OR LOOSENING WHEN A STATIC LOAD OF 10 kg FOR 15 SECONDS IS APPLIED IN THE DIRECTION OF PULLING OUT TO THE TERMINAL.

5. ELECTRICAL PERFORMANCE

5.1 RATED PRIMARY VOLTAGE : AC 230 V

5.2 RATED FREQUENCY : 50 Hz

5.3 SECONDARY VOLTAGE.

CODE	NO-LOAD VOLTAGE (R.M.S)	DEVIATION
HIGH VOLTAGE	AC 2280 V	± 20 V
FILAMENT VOLTAGE(S2)	AC 3.2 V	± 0.1 V

5.4 NO-LOAD CURRENT : NO-LOAD CURRENT SHALL BE LESS THAN 8.0 A AT 50 Hz, AC 230 V SUPPLY.

5.5 NO-LOAD WATTAGE LOSS : NO-LOAD WATTAGE LOSS SHALL BE LESS THAN 65 W AT 50 Hz, AC 230 V SUPPLY.

5.6 DIELECTRIC STRENGTH AND INDUCED VOLTAGE TEST : TRANSFORMER SHALL BE WITHSTAND AS FOLLOWING STATEMENT.

ITEM	STANDARD	MASS PRODUCTION
APPLIED POINT	APPLIED VOLTAGE(RMS)AND TIME	APPLIED VOLTAGE(RMS)AND TIME
PRIMARY WINDING - CORE	50 Hz, AC 1500 V, 1 MINUTE	50 Hz, AC 2000 V, 3 SECONDS
FILAMENT WINDING - CORE	50 Hz, AC 7500 V, 1 MINUTE	50 Hz, AC 10000 V, 3 SECONDS
FILAMENT WINDING - PRIMARY WINDING	50 Hz, AC 7500 V, 1 MINUTE	50 Hz, AC 10000 V, 3 SECONDS
INDUCED VOLTAGE - TEST	400 Hz, AC 690 V, 18SECONDS	400 Hz, AC 690 V, 3 SECONDS

5.7 INSULATION RESISTANCE : INSULATION RESISTANCE BETWEEN EACH WINDING, AND CORE, EXCEPT SECONDARY WINDING AND CORE, SHALL BE MORE THAN 100 MΩ MEASURED WITH DC 500V INSULATION RESISTANCE TESTER BEFORE LOADING.

5.8 DC.RESISTANCE AT 20 ℃

(1) PRIMARY : 1.005 + 2 % Ω

(2) SECONDARY : 75.00 + 2 % Ω

6. ENVIRONMENTAL PERFORMANCE.

6.1 HEAT RESISTANCE : IMMEDIATELY AFTER BEING PLACED IN A ROOM FOR 48 HOURS MAINTAINED AT 200℃ AMBIENT TEMPERATURE, TRANSFORMER SHALL CONFORM WITH THE ABOVE PARAGRAPH 5-6 AND ALSO INSULATION RESISTANCE SHALL BE MORE THAN 10 MΩ.

6.2 MOISTURE RESISTANCE : IMMEDIATELY AFTER BEING PLACED IN A ROOM FOR 96 HOURS IN SUCH CONDITION THAT IS MAINTAINED AT 90 - 95% RELATIVE HUMIDITY AND 40 ± 2℃ TEMPERATURE, AND WIPED A DROP OF WATER, TRANSFORMER SHALL BE CONFORM WITH THE ABOVE PARAGRAPH 5-6 AND ALSO INSULATION RESISTANCE SHALL BE MORE THAN 10 MΩ.

7. OUTGOING INSPECTION.

7.1 100% INSPECTION ITEMS : NO - LOAD CURRENT, NO - LOAD WATTAGE LOSS, SECONDARY OPEN VOLTAGE, ITEM 5-6 TEST, APPEARANCE AND CONSTRUCTION.

7.2 SAMPLING INSPECTION ITEMS : THE ITEMS OF THE SAMPLING INSPECTION SHALL BE COIL RESISTANCE, INSULATION RESISTANCE, DIMENSION AND AUDIBLE SOUND TEST, INCLUDING THE 100% INSPECTION ITEMS AS THE ABOVE PARAGRAPH 7-1.

7.3 THE SAMPLING INSPECTION DATA ACCORDING TO 7-2 AND 100% DIELECTRIC WITHSTAND TEST DATA SHALL BE SUBMITTED FOR EACH LOT. (N=5)

8. OTHERS.

8.1 AUDIBLE SOUND TEST : WHEN APPLIED WITH OF THE RATED PRIMARY VOLTAGE, TRANSFORMER SHALL BE MAKE NO LOUDER SOUND THAN 50dB. AT THE DISTANCE OF 30Cm FROM IT.

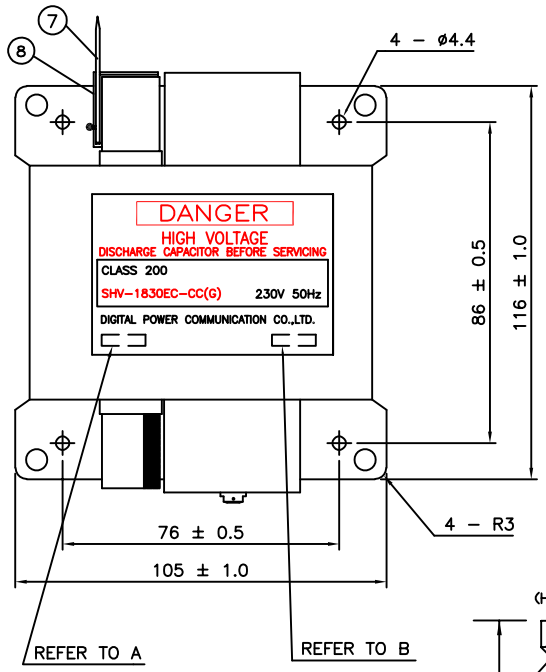
8.2 INSULATION CLASS : CLASS 200

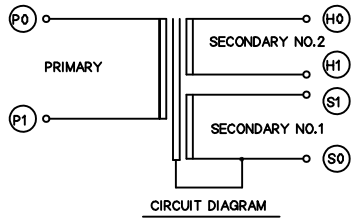
8.3 MAGNETRON : OM75P

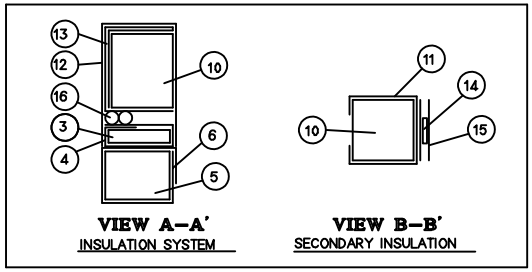
8.4 CONDENSER : uF

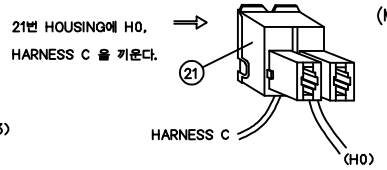
8.5 OUTPUT POWER : 1000 W

8.6 WEIGHT : 6.8 Kg

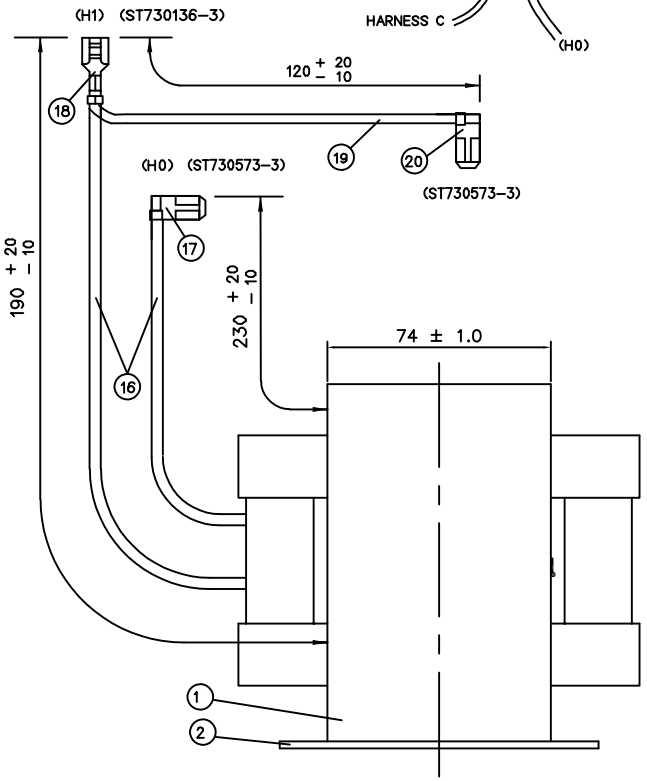




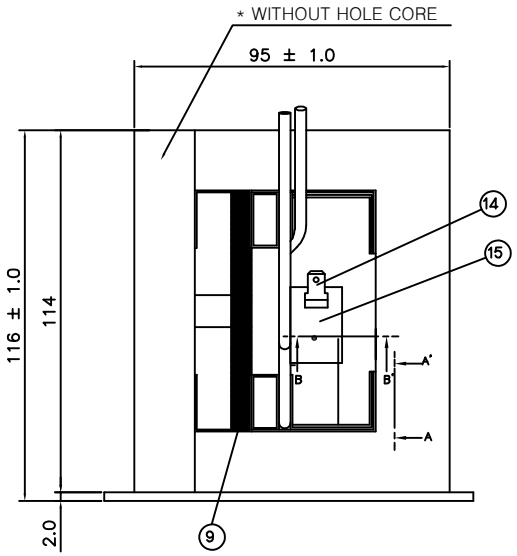




(MG630823T-002)



BRACKET SPOT WELDING ON MAKED 4 POSITIONS



* A – FOR PRODUCTION CONTROL

0 (YEAR) 0 0 (MONTH) 0 0 (DAY) 0 0 (TIME/WORK LINE)

* YEAR ; D : '2023 E : '2024 F : '2025

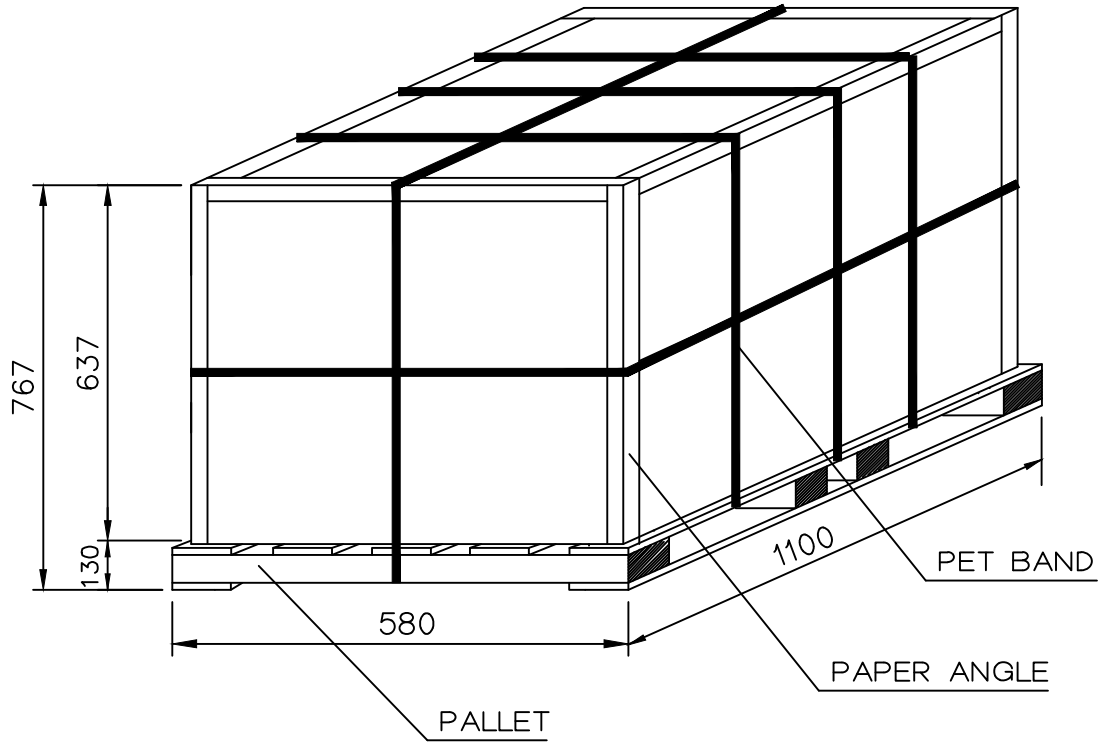
* B – FOR PRODUCTION LOCATION

D P C : KOREA
DPC–M : MALAYSIA
DPC–c : CHINA(DPC NANTONG CO.,LTD)
DPC–S : CHINA(DPC FOSHAN CO.,LTD)

	VARNISH		UNSATURATED POLYESTER VARNISH "DVB–2152" NOROO PAINT & INK CO.,LTD "E93947"
21	HOUSING	1EA	POSITIVE LOCK HOUSING #250. PART NO : "MG630823T–002(V–0)" KET OR EQUIVALENT PRODUCT
20	HARNESS C TERMINAL	1EA	BRASS STRIP. POSITIVE LOCK TERMINAL #250 PART NO : "ST730573–3" KET OR EQUIVALENT PRODUCT
19	HARNESS C	1EA	SILICONE RUBBER WIRE ø0.8(RED)
18	SECONDARY NO.2 COIL TERMINAL	1EA	BRASS STRIP. FASTON TAB TERMINAL #250 PART NO : "ST730136–3" KET OR EQUIVALENT PRODUCT
17	SECONDARY NO.2 COIL TERMINAL	1EA	BRASS STRIP. POSITIVE LOCK TERMINAL #250 PART NO : "ST730573–3" KET OR EQUIVALENT PRODUCT
16	SECONDARY NO.2 COIL	1EA	SILICONE RUBBER WIRE ø0.8(RED)
15	SECONDARY COIL ANCHOR BOARD	1EA	ARAMID PAPER #410,#414,NMN 0.30mm THICK. DUPONT.
14	SECONDARY FASTON TABS	1EA	EQUIVALENT TO TYCO #250
13	SECONDARY NO.1 COIL INSULATOR2	2EA	MICA 0.25mm MIN THICK.
12	SECONDARY NO.1 COIL INSULATOR	2EA	ARAMID PAPER #410,NMN 0.18mm THICK. DUPONT.
11	SECONDARY NO.1 COIL END INSULATOR	2EA	ARAMID PAPER #411,NMN 0.25mm THICK. DUPONT.
10	SECONDARY NO.1 COIL	1EA	MW35C POLYESTER POLYAMIDEIMIDE COATING WIRE OR POLYESTERIMIDE POLYAMIDEIMIDE COATING WIRE
9	PRIMARY SUPPORT INSULATOR	1EA	ARAMID PAPER #411,NMN 0.25mm THICK. DUPONT.
8	PRIMARY FASTON TAB ANCHOR BOARD	1EA	ARAMID PAPER #410,#414,NMN 0.30mm THICK. DUPONT.
7	PRIMARY FASTON TABS	2EA	EQUIVALENT TO TYCO #250
6	PRIMARY INSULATOR	2EA	ARAMID PAPER #410,NMN 0.18mm THICK. DUPONT.
5	PRIMARY COIL	1EA	MW35C POLYESTER POLYAMIDEIMIDE COATING WIRE OR POLYESTERIMIDE POLYAMIDEIMIDE COATING WIRE
4	PASS CORE INSULATOR	2EA	PRESS BOARD 0.18mm THICK. ARAMID PAPER #411 0.25/0.38mm THICK. DUPONT.
3	PASS CORE	2EA	LAMINATED ELECTRICAL STEEL 0.5mm THICK.
2	MOUNTING BRACKET	1EA	STEEL 2.0mm THICK.
1	CORE	1EA	LAMINATED ELECTRICAL STEEL 0.5mm THICK.
NO	MATERIAL	Q'TY	SPECIFICATION

△			名稱 (DESIGNATION): H . V . T (SHV–1830EC–CC(G))
△			
△			
△			
(NO)	(DATE)	變 更 內 容 (MODIFIED CONTENTS)	
尺度 (SCALE)	設計 (DESIG) (DATE) 2023.02.06	製圖 (DWG)	檢圖 (CHECK) 承認 (APPR.)
			圖番 (DWG NO.) PRJ–05492 (PAGE) /

DIGITAL POWER COMMUNICATIONS CO.,LTD.



. PRODUCT WEIGHT PER A PCS : ABOUT 6.8 KG

. TOTAL PRODUCT WEIGHT PER A PALLET : 6.8 KG X 120 Pcs=ABOUT 816 KG

. PACKING WEIGHT PER A PALLET : ABOUT 20 KG

. TOTAL WEIGHT PER A PALLET : 816 KG+ 20 KG=ABOUT 836 KG

. PRODUCT QUANTITY PER A PALLET :

6 IN A ROW BY 4 COLUMN X 5 LAYER= 120 Pcs

. PALLET QUANTITY (1100 x 580) X 20 = 20 Pcs

. CONTAINER TOTAL WEIGHT IN 20'FT CONTAINER :

836 KG X 20 Pcs= ABOUT 16,720 KG

. TOTAL QUANTITY OF PRODUCTS IN 20'FT CONTAINER :

120 Pcs X 20 Pcs = 2,400 Pcs

△			名稱	(DESIGNATION) SHV-1830EC-CC(G)	
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