# LIST OF EXHIBITS

( FCC ID : C5F7NF1AMO1000 )

- Report of Measurement conducted by TOSHIBA (With DAEWOO Magnetron of 2M218)
- 2. Report of Measurement conducted by TOSHIBA (With TOSHIBA Magnetron of 2M254: alternate)
- 3. Photographs
- 4. Wiring Diagram
- 5. Identification Label
- 6. Specification of DAEWOO Magnetron of 2M218
- 7. Specification of TOSHIBA Magnetron of 2M254
- 8. Operating Instruction

1. Report of Measurement conducted by TOSHIBA (With DAEWOO Magnetron of 2M218)

► FCC ID : C5F7NF1AMO1ØØØ ◀

# **TOSHIBA**

#### TOSHIBA HOKUTO ELECTRONICS CORPORATION

MAGNETRON ENGINEERING DEPARTMENT 1975, 23-CHOME, MINAMI 5-JODORI, ASAHIKAWA-SHI, HOKKAIDO, 078-8335, JAPAN PHONE: (0166)31-4728 FACSIMILE: (0166)31-4739

Mr. Byeong-Jun Kim
Research Manager
Microwave Oven
R & D Center
DAEWOO ELECTRONICS Co., LTD.
#412-2, Chongchon 2-Dong,
Pupyong-Ku, Incheon,
KOREA

April 21, 1999 (Ref. No. : 99-077)

RE: <u>Electromagnetic radiation from microwave oven KOR-1A1G</u> with <u>Daewoo magnetron 2M218</u>

Dear Mr. Kim

We are enclosing herewith the above mentioned test results based on FCC measuring method in our measuring facility of FCC file number 430A.

We confirmed test results are satisfied with FCC limit.

Please feel free to contact us, if you have any question or request.

Sincerely yours.

Hiromasa Shoji

Manager(

Magnetron Application Engineering Magnetron Engineering Department

SY/IS/n2

cc: Mr. Murata

**TOSHIBA TOKYO** 

Mr. Ikegami

**TOSHIBA HOKUTO TOKYO** 

### **ELECTROMAGNETIC RADIATION TEST OF MICROWAVE OVEN**

The following measurements were conducted in Toshiba Hokuto Electronics Corporation measurement facility of FCC file number 430A.

Date : 1999-4-21 Oven : KOR-1A1G Tube : 2M218

Line : 120V/60Hz

1. Output power (Load : 1000ml water (center))

Input power : 1400W Output power : 1000W

\* Permissible FIS =  $35.4 \mu$  V/m at 300m

(FIS: Field Intensity Strength)

2. Power Leak (Load: 275ml water (center))

Po leak : 0.15 mW/cm²

3. FIS measurements

Measurement equipment (Refer Page-4)

Interference analyzer

: EMC-60 MK-IV (Bandwidth : 5MHz)

Antenna

: CA-S, CA-M and CA-X

3-1 Side band radiation (Load: 700ml water (center))

Frequency (MHz)	FIS ( μ V/m) at 300m	
2,376	7.5	
2,527	5.7	

#### 3-2 Harmonics radiation

Harmonics	Load	FIS( μ V/m) at 300m	Frequency (MHz)
2nd	300ml side	9.9	4,918
3rd	300ml center	11.4	7,018
4th	700ml center	12	10,243

Note: 2nd and 3rd Harmonics: The maximum value with the load condition such as 300ml or 700ml

water in the center or side position

#### 4. Frequency measurements

Measurement equipment (Refer Page-4)

Interference analyzer

: EMC-60 MK-IV (Bandwidth : 5MHz)

Antenna

: CA-S, CA-M and CA-X

# 4-1 The variation of frequency for load variation ( Load : 1000ml water center)

Volume of water (ml)	Frequency (MHz)
1000	2,457
800	2,450
600	2,451
400	2,447
200	2,444

# 4-2 The variation of frequency for line voltage variation ( Load : 1000ml water center)

Line voltage (V)	Frequency (MHz)
96	2,449
108	2,453
120	2,456
132	2,452
150	2,452

#### 5. Frequency sweeping

Measurement equipment (Refer Page-4)

Spectrum analyzer

: HP8562A

Antenna

: CA-S, CA-M and CA-X

None of higher FIS value than those shown in the above table existed in the following frequency band.

Frequency (MHz)	Load condition
2000 - 2400	700ml center
2500 - 4000	
4000 - 8000	300ml or 700ml water in the center or side position
8000 - 10000	700ml center

No.	Equipment Name	Model Name & Manufacturer	Specification	Last Calibration Date	Calibration Frequency
1	Interference Analyzer	EMC-60 MK-IV SER.: 44116 ELECTRO-METRICS	0.5 to 18 GHz	March 1999	
2	Antenna	(1) CA-S SER : 22-1 POLARAD	2.1 to 4.34 GHz		
		(2) CA-M SER : 20-15 POLARAD	4.19 to 7.74 GHz		
		(3) CA-X SER : 20-10 POLARAD	7.36 to 10 GHz		
3	Signal Generator	8671B SER : 2545A00106 HEWLETT PACKARD	2.0 to 18 GHz	March 1999	•
4	Frequency Counter	85340A SER : 134A01280 HEWLETT PACKARD		March 1999	Annually
5	Power Meter	435A SER : 1312J00144 HEWLETT PACKARD	0 to 1 mW	March 1999	Annually
6	Power Sensor	8481A SER : 1234A871 HEWLETT PACKARD		March 1999	
7	Spectrum Analyzer	8562A SER : 2923A03932 HEWLETT PACKARD	1 kHz to 22 GHz	March 1999	

.

2. Report of Measurement conducted by TOSHIBA (With TOSHIBA Magnetron of 2M254 : alternate)

► FCC ID : C5F7NF1AMO1ØØØ ◀

# **TOSHIBA**

#### TOSHIBA HOKUTO ELECTRONICS CORPORATION

MAGNETRON ENGINEERING DEPARTMENT 1975, 23-CHOME, MINAMI 5-JODORI, ASAHIKAWA-SHI, HOKKAIDO, 078-8335, JAPAN PHONE: (0166)31-4728 FACSIMILE: (0166)31-4739

Mr. Byeong-Jun Kim
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April 21, 1999 (Ref. No. : 99-078)

RE: <u>Electromagnetic radiation from microwave oven KOR-1A1G</u> with Toshiba magnetron 2M254

Dear Mr. Kim

We are enclosing herewith the above mentioned test results based on FCC measuring method in our measuring facility of FCC file number 430A.

We confirmed test results are satisfied with FCC limit.

Please feel free to contact us, if you have any question or request.

Sincerely yours,

Hiromasa Shoji

Manager

Magnetron Application Engineering Magnetron Engineering Department

SY/IS/n2

cc: Mr. Murata

**TOSHIBA TOKYO** 

Mr. Ikegami

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Date: 1999-4-21 Oven: KOR-1A1G Tube: 2M254 Line: 120V/60Hz

1. Output power (Load: 1000ml water (center))

Input power : 1400W Output power : 1000W

\* Permissible FIS =  $35.4 \mu$  V/m at 300m

(FIS: Field Intensity Strength)

2. Power Leak (Load: 275ml water (center))

Po leak : 0.15 mW/cm²

3. FIS measurements

Measurement equipment (Refer Page-4)

Interference analyzer : EMC-60 MK-IV (Bandwidth : 5MHz)

Antenna : CA-S, CA-M and CA-X

3-1 Side band radiation (Load: 700ml water (center))

Frequency (MHz)	FIS ( μ V/m) at 300m
2,386	9.5
2,509	1.6

#### 3-2 Harmonics radiation

Harmonics	Load	FIS(μV/m) at 300m	Frequency (MHz)
2nd	700ml center	11.1	4,907
3rd	300ml center	6.7	7,845
4th	700ml center	10.6	10,157

Note : 2nd and 3rd Harmonics : The maximum value with the load condition such as 300ml or 700ml

water in the center or side position

#### 4. Frequency measurements

Measurement equipment (Refer Page-4)

Interference analyzer

: EMC-60 MK-IV (Bandwidth : 5MHz)

Antenna

: CA-S, CA-M and CA-X

### 4-1 The variation of frequency for load variation ( Load : 1000ml water center)

Volume of water (ml)	Frequency (MHz)
1000	2,455
800	2,465
600	2,452
400	2,452
200	2,452

### 4-2 The variation of frequency for line voltage variation ( Load : 1000ml water center)

Line voltage (V)	Frequency (MHz)
96	2,450
108	2,454
120	2,455
132	2,450
150	2,451

#### 5. Frequency sweeping

Measurement equipment (Refer Page-4)

Spectrum analyzer

: HP8562A

Antenna

: CA-S, CA-M and CA-X

None of higher FIS value than those shown in the above table existed in the following frequency band.

Frequency (MHz)	Load condition	
2000 - 2400	700ml center	
2500 - 4000		
4000 - 8000	300ml or 700ml water in the center or side position	
8000 - 10000	700ml center	

No.	Equipment Name	Model Name & Manufacturer	Specification	Last Calibration Date	Calibration Frequency
1	Interference Analyzer	EMC-60 MK-IV SER.: 44116 ELECTRO-METRICS	0.5 to 18 GHz	March 1999	
2	Antenna	(1) CA-S SER : 22-1 POLARAD	2.1 to 4.34 GHz		
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		(3) CA-X SER : 20-10 POLARAD	7.36 to 10 GHz		
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4	Frequency Counter	85340A SER : 134A01280 HEWLETT PACKARD		March 1999	Annually
5	Power Meter	435A SER : 1312J00144 HEWLETT PACKARD	0 to 1 mW	March 1999	Annually
6	Power Sensor	8481A SER : 1234A871 HEWLETT PACKARD		March 1999	
7	Spectrum Analyzer	8562A SER: 2923A03932 HEWLETT PACKARD	1 kHz to 22 GHz	March 1999	

### 3. PHOTOGRAPHS

- (1) FRONT VIEW (DOOR CLOSE)
- (2) FRONT VIEW (DOOR OPEN)
- (3) REAR VIEW
- (4) SIDE VIEW (LEFT)
- (5) SIDE VIEW (RIGHT) DAEWOO M.G.T
- (6) SIDE VIEW (RIGHT) TOSHIBA M.G.T
- (7) TOP VIEW DAEWOO M.G.T
- (8) TOP VIEW TOSHIBA M.G.T
- (9) BOTTOM VIEW

► FCC ID : C5F7NF1AMO1ØØØ ◀

7. Specification of TOSHIBA Magnetron of 2M254

► FCC ID : C5F7NF1AMO1ØØØ ◀

# **TOSHIBA**

TOSHIBA HOKUTO ELECTRONICS CORPORATION MAGNETRON QUALITY ASSURANCE GROUP, MAGNETRON DIVISION 1975, 23-CHOME MINAMI -5-JODORI, ASAHIKAWA, HOKKAIOO 078, JAPAN PHONE (0166) 31-6500 FACSIMILE (0166) 31-8209

To: DAEWOO ELECTRONICS CO., LTD.

APPROVAL SIGNATURE

# **SPECIFICATION**

FOR **MAGNETRON** 2M254

Yoichi Terabayashi

MANAGER, MAGNETRON QUALITY ASSURANCE GROUP MAGNETRON DIVISION

SPECIFICATION NUMBER: E960014-D01

January 24, 1996

REVISION STATUS

**REVISION A** 

February 28, 1996

**REVISION B** 

June 21, 1996

. REVISION C

July 17, 1997

**REVISION D** 

June 16, 1998

REFERENCE FOR THIS SPECIFICATION

MAGNETRON ENGINEERING DEPARTMENT 1975, 23-CHOME, MINAMI 5-JOCORI, ASAHIKAWA, HORKARO  $07^{\circ}$ ,  $240^{\circ}$ PHONE: (0160) 31-4728 FACSWILE: (0166) 35-5671

This specification is based on the testing methods for continuous wave magnetrons ED-1501 set by the Electronic Industries Association of Japan (EIAJ).

	<u> </u>					s Wave								•
DESCRIPTION		Magr	etron (	Fixed	Frequ	ency, Ir	itegral	Magr	net, Forced	Air (	Cooled)			
FUNCTION		2450	MHz b	and c	ontinu	ous wav	e osc	llation	1					
OUTER DIMEN	ITIONS	See	outline	drawii	ng									
					(°)	·	(¹º)			(2)	(,)			( <sup>5</sup> )
A DOOLLITE		Term	Ef	tk	ebm	Ib	ibm	Pi	σL	Тр		: Tsto	•	Tseal
ABSOLUTE . MAXIMUM RAT	rings	Unit	V	S	kV	mAdc	Α	kW	-	°C	°C	٥	С	°C
	,	Max	3.75	-	4.5	350	1.2	1.4	4	300	100	€	0	320
		Min	2.85	0	-	-	-	-	-	-	-	-:	30	
STANDARD TE			3.3	5	-	300		-	1.1Max	-	<u>.</u>		<u>.</u>	-
	······································			Τ	EST S	PECIFI	CATIC	NS						
	14.4.65	TEST METHOD			TEST CONDITION		SYMBOL	R	BOGIE	LIMIT		UNIT		
TEST TER	(M , (°)	(EIAJ ED-1501)						Min		Max				
** Vibration	<del></del> .	5.4.1							-		<u>-</u>	-	-	
Breakdown	Voltage	4.2				kVdc Vac (rm	s)				-	-	-	-
Insulation		.,			Et=1k	(Vdc (')			-			_	-	-
* Cold Start \ Transient	/oltage		-	<del>,</del>		(8	)		-		_	-	-	kV
* Filament Co	urrent	4.1.1			(k=12	0s			1f	1	0.5	8.5	12.5	Α
Peak Anode		4.3.1				(°	)		ebm		4.20	4.05	4.40	kV
Average Output Power (1)		4.3.3	3,1			(3	)		Ро		900	860	940	w
* Average Output Power (2)		4.3.3	3.2		σ L=4	I. Powe			Po		-	510	-	ŵ
Frequency		4,3.4				(	)		ſ	:	2460	2450	2470	MHz
Stability/Mo	oding	4.3.1	11.2		σL=2	2,3,4					-	<u>-</u>	-	<u> </u>
* Stability/Runaway		4.3.1	11,1		σL=6	5, t=30s								
* Pulling Fac		4.3.6	3		σL=2	2			fpl		-	-	26	MHz
* Sink Phase		4.3.	7 ,	ş -	σt=:	2			λsink /λς	,   (	0.200	-	-	<u>:</u>
** Life Test		4.5.	1			('	')		ŧ			500	-	h
Life Test End Point	Average Output Power (1)	4.3.3	3.1			(	°)		Po		-	680	-	Ŵ
	Stability/ Moding	4.3.	11.2		σL=	2,3,4			-		-		-	-
	Stability/ Runaway	4.3.	11. <sup>1</sup>		σι=	6, (=309	; 				-		-	

- Note (1) The tube shall be mounted on the output coupler (containing tapered waveguide) shown in the attached drawing (Page-4) and cooled by forced air of 800 #min. Single phase full wave rectifier without filter shall be used for power supply. The diagram of the test equipment is shown in the attached drawing (Page-3).
  - (2) During normal oscillation.
  - (3) The points for measuring anode temperature is shown in the outline drawing.

    Maximum anode temperature for normal condition (with load in the cavity) should be 250 °C
  - (1) The point for measuring filter case temperature is shown in the outline drawing.
  - (5) Tseal means temperature of ceramic-to-metal seal position of the tube. Maximum allowable build-up curve of seal temperature is shown in the attached drawing (Page-5).
  - (9) Tests shall be classified as follows:

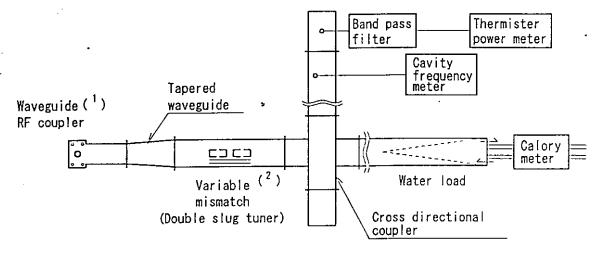
Class	Mark †	Remarks		
Production test	None	This test is intended to ensure if the production line is being processed in compliance with the standard, and shall be conducted on some typical characteristics which are considered to be affected by changes in the process.		
Design test		This test is intended to ensure the standard design, and shall be conducted on such characteristics which are not affected by the ordinary production line as long as the design is maintained.		
Type approval test	**	This test is intended to ensure the compliance of the standard design with given specifications, and may be omitted unless a substantial change in the design is made.		

- †: The Mark is placed on the left of each test item, for instance, \*\*Vibration
- (7) See the attached drawing (Page-5, Insulation).
- (\*) Measurement shall be conducted by standard oven which has a single phase half wave doubler power supply without filter, where no load voltage of the transformer shall be less than 2.2 kV rms. The voltage transient just before start of oscillation shall be measured.
- (\*) Measurement shall be conducted within 15 seconds after anode power is turned on. Magnetron is kept in the constant ambient temperature for more than 4 hours before testing. Standard ambient temperature is 25 °C. Correction factor of peak anode voltage (ebm) and output power (Po) vs. temperature is shown in the attached drawing (Page-5).
- (10) For each oven model, both microwave oven manufacturer and Toshiba Hokuto should evaluate and agree on the stability characteristics in the design stage of the oven.
- (") The tube shall not appreciably be damaged in the following abnormal test.

C	ondition:		
	Anode temperature (Tp)	Cycle (Time)	Corresponding operating condition
	350 °C MAX	5 cycles (15minutes/cycle)	No Load

#### TEST EQUIPMENT

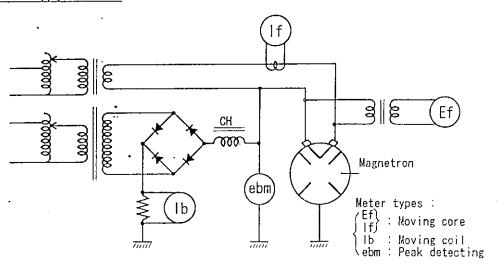
#### A. Waveguide configuration



#### Note

- (¹) (°) Details are shown in the attached drawing (Page-4).
- Calibrated with the standard standing wave detector.
- WR430 waveguides are used from the double slug tuner to the water load.

#### B. Power supply connection



#### Note

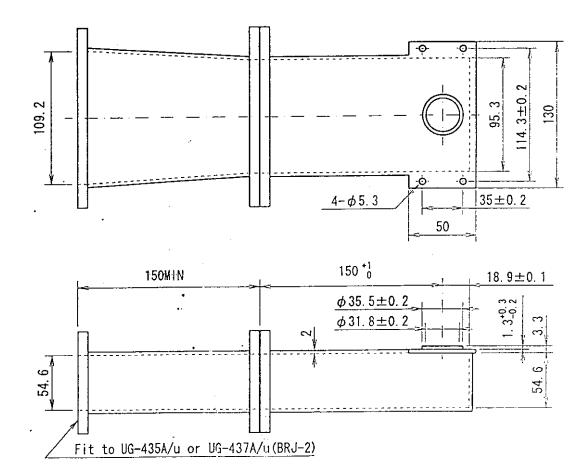
Choke coil is adjusted such that the peak anode current value becomes three times the average value.

#### FILAMENT CONNECTION

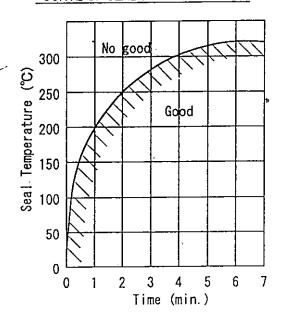
To minimize possible transient voltage, the terminals F and FA should be connected to the transformer in such a way that the anode voltage increases and anode current decreases compared with those for reversed connection when a single phase half wave doubler without filter is used as a power supply.

OUTPUT COUPLER (The output coupler used in Toshiba Hokuto inspection)

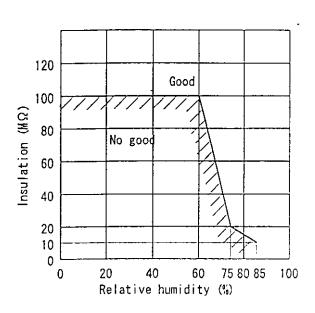
Unit:mm



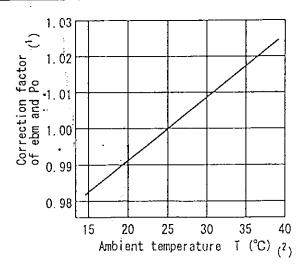
# MAXIMUM ALLOWABLE BUILD-UP CURVE OF SEAL TEMPERATURE



#### INSULATION



# CORRECTION FACTOR OF PEAK ANODE VOLTAGE (ebm) AND OUTPUT POWER (Po) VS. AMBIENT TEMPERATURE



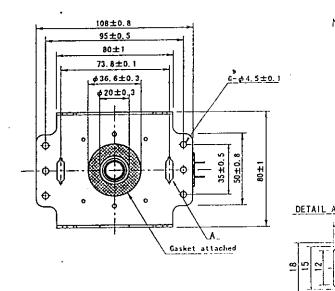
Note

(') ebm (or Po) measured at T °C × Correction factor at T °C = ebm (or Po) at 25 °C

The temperature shown in this figure is the constant room temperature in which the magnetron has been kept for more than 4 hours before testing.

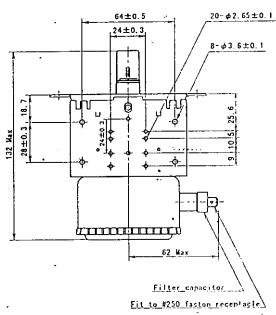
#### **OUTLINE DRAWING (Made in JAPAN)**

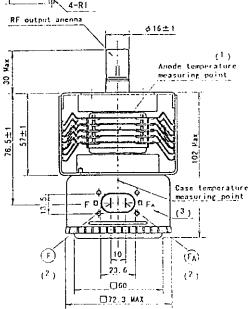
Unit: mm



Note(') Temperature to be measured at the outlet side of air flow.

- () Refer filament connection.
- (\*) "F" and "FA" are marked at these positions.

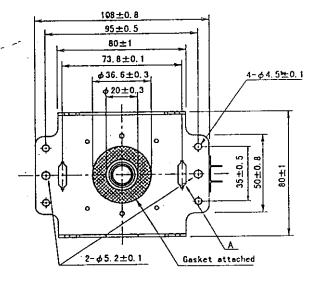




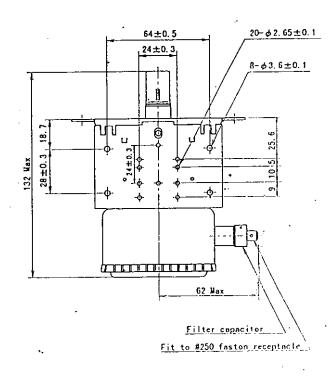
#### **OUTLINE DRAWING (Made in UK)**

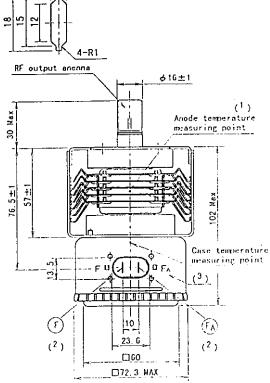
DETAIL A

Unit: mm



- Note(') Temperature to be measured at the outlet side of air flow.
  - ( ) Refer filament connection.
  - (°) "F" and "FA" are marked at these positions.





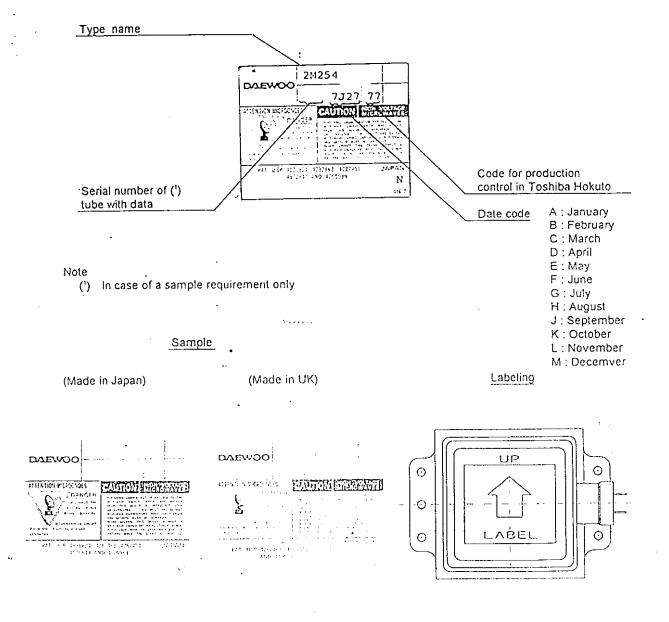
#### LABEL

The label as shown below shall be put on each tube.

The code stamped on the indicated position of each label consists of three block numbers;

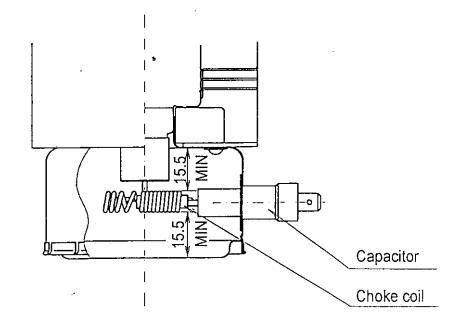
The first block is the serial number of tube with data. The second block is the date code in which the preceding one numerals shows the last of Christian Era and the continuing block letter and two numerals indicate the three months after the scheduled date of shipment from Japan or UK.

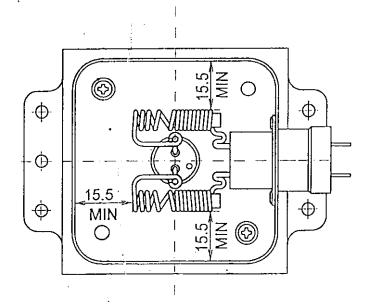
The third block is the numerals only for the production control in Toshiba Hokuto.



#### SPACING IN THE FILTER BOX

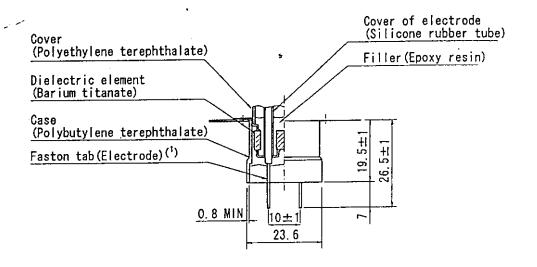
Unit : mm

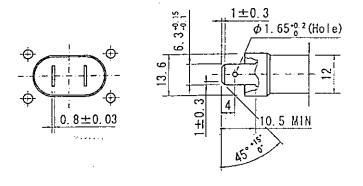




#### DETAILS OF FILTER CAPACITOR

Unit: mm





Note

(') The faston tab meets to BS 5057; 1973 and DIN 46 244; April 1980.

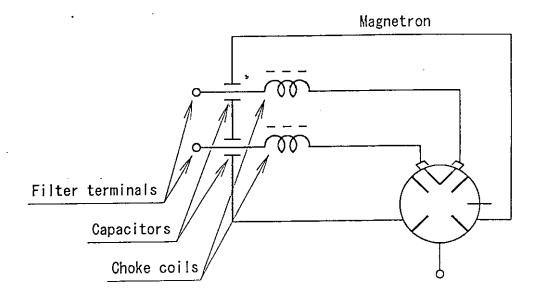
#### INSULATING MATERIAL (Refer Page-8 & 9)

	Catalog No./	1	Manufacturer		UL No. (')	
Part Name	Manufacturer (*)	Material	of Materials	Guide No.	File No.	Grade No.
	Toshiba Hokulo	Barium Titanaté	TDK Corp.	-	-	· · · · · · · · · · · · · · · · · · ·
	Spec.	Epoxy Resin	Ditto	_	-	-
Capacitor	HFC-2L-3/ TDK Corp.	Silicone Rubber Tube	Shin-etsu Chemical Co., Ltd. or Toshiba Silicone Co., Ltd.	-	-	•
		Polyethylene Terephthalate	Teijin Ltd.	QMF-Z2	E52857M	CN9015
,		Polybutylene Terephthalate	Mitsubishi Rayon Co., Ltd.	QMF-Z2	E54695M	G2930
	Toshiba Hokuto Spec. Marusan Corporation. or Kokusan Bane	Ferrite <sub>.</sub>	Tomita Electric Co., Ltd. or Hitachi Ferrite Co., Ltd. or Fuji Denki Kagaku Co., Ltd. or NWE Industrial Co., Ltd.	-	-	-
	Co., Ltd.	Formal Coated Wire	Daiichi Denko Co., Ltd. or Showa Electric Wire & Cable Co., Ltd. or TAI-I Electric Wire & Cable Co.,Ltd.	-	-	-
		Silicone Rubber	Toshiba Silicone Co., Ltd.	-	-	-

#### Note

- (') UL No. is for the material.
- (\*) One of them shall be used by Toshiba Hokuto's option.

### FILTER CIRCUIT



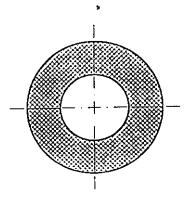
#### RATING

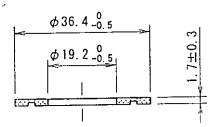
	Nominal value	Remarks
Capacitor :	500pF×2 WV 10kVdc	-
Choke coil (13.5 turns)	1.2μH×2	at about 8MHz

GASKET

Unit: mm

Material: Woven and press formed brass wire





Inspection: By using thick part of slide calipers

#### PRECAUTIONS FOR SAFETY

Carefully take the following precautions for safety in using the magnetrons for microwave ovens or for other applications.

Magnetrons must be handled by individuals possessing adequate backgrounds of electrical, electronic, microwave and mechanical experience.

Toshiba Hokuto Electronics Corporation cannot be responsible for the interpretation of this information, nor can it be assumed any liability in connection with its use.

#### 1. High Voltage

Since the magnetron is operated with negative high potential at the cathode terminals, a special care must be taken as follows.

- 1-1 Do not touch nor come close to the cathode terminals or their surroundings during operation.
- 1-2 To avoid shock hazards, never insert metallic wire or like into the filter box, and never operate the magnetron with the lid of filter box open.
- 1-3 Before removing the magnetron from the oven, carefully check that power is turned off, and discharge the cathode terminal or the capacitors in the power supply circuit by using the discharging rod adequately designed for safety.

#### 2. Radiation Leakage

Care should be taken for radiation leaked from the magnetron, though the leakage from the input part of magnetron is restricted to a level which human body is not adversely affected.

- 2-1 Properly install and tightly fasten the magnetron in the oven or in the waveguide coupler.
- 2-2 Do not deform the gasket or do not operate the magnetron with the gasket removed, to avoid hazardous conditions such as radiation leakage and arcing.
- 2-3 Never operate the magnetron without installing it in the over or with the output antenna exposed.
- 2-4 Do not remove the lid of the filter box nor deform the filter box.
- 2-5 Always keep your eyes apart from the operating magnetron in consideration of the unexpected hazardous conditions.

#### 3. Temperature

Although the magnetron is subjected to forced air cooling during operation, high temperature (sometimes more than 200 °C) is observed on the enclosure of magnetron. Care should be taken as follows:

- 3-1 Do not touch the magnetron immediately after turning power off. Allow the magnetron to cool before handling.
- 3-2 Putting on cotton gloves or the equivalents is recommended for safe handling.

#### 4 Alteration

Do not alter the magnetron.

#### Factories

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# RECORD OF REVISION

Original Specification: E960014-D01 January 24, 1996

STATUS	PAGE	REVISION	NOTES	EFFECTIVE DATE	
Revision A	7	LABEL	As per Daewoo's request	February 28, 1996	
Revision B	6	Change of Label  Addition of holes for mounting thermoswitch	As per Toshiba Hokulo's request	June 21, 1996	
		Length from antena top to filter box lid 131MAX → 132MAX	Correction		
		Length from york to filter box lid 101MAX → 102MAX			
Revision C	1	TEST CONDITION of Average Output Power(1) Bogie; 890→ 900, Min; 850→ 860 Max; 930→ 940	Correction	July 17, 1997	
	7	LABEL Addition of Label made in UK	As per Daewoo's request		
	14	Addition of factories	As per Daewoo's request		
Revision D	2	Change of LIFE TEST CONDITION 320°C MAX → 350°C MAX	As per Toshiba Hokuto's request	July, 1993	
	6	Change of title Outline drawing (Made in Japan)	Change of hole size (made in UK only)		
	6-1	Addition of page Outline drawing (Made in UK)			
		Change of page	Due to-addition-of-page—		
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