

ACLAP7A01

APPLICATION FOR CERTIFICATION

<u>MODEL NO.</u>	<u>FCC ID</u>
NN-P994BFR/SFR/WFR	ACLAP7A01
NN-T995SF	ACLAP7A01
NN-T994SFR	ACLAP7A01
NN-T985SF	ACLAP7A01
NN-T975SF	ACLAP7A01
NN-H965BF/WF	ACLAP7A01
NN-T965SF	ACLAP7A01
NN-T964SFR	ACLAP7A01
NN-T955SF	ACLAP7A01
NN-S954BFR/WFR	ACLAP7A01
NN-T945SF	ACLAP7A01
NN-H935BF/WF	ACLAP7A01
NN-S935BF/WF	ACLAP7A01
NN-T935SF	ACLAP7A01
NN-S934BFR/WFR	ACLAP7A01
JES2251SJ	ACLAP7A01

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EXHIBIT 1-1

TECHNICAL REPORT

1. DESCRIPTION OF MEASUREMENT FACILITY:

The description of the measurement facility is already on file with the FCC laboratory. Please refer to the commission's reference 31010/EQU 4-3-0A.

2. INSTALLATION INSTRUCTIONS:

See EXHIBIT 7.

3. OPERATING INSTRUCTIONS:

See EXHIBIT 8.

4. APPLICANT:

MATSUSHITA HOME APPLIANCE COMPANY,
MICROWAVE TECHNICAL LAB.,E-Zip E2J-16
1711 N. Randall Road
Elgin, Illinois 60123-7847

5. MANUFACTURER:

PANASONIC HOME APPLIANCES, MICROWAVE OVEN CO. LTD. (PHAMOS)
868 Long Dong Road
Pu Dong, Shanghai 201203 CHINA

6. MEASUREMENT SITE:(Radiated Emissions)

FCC Registration Number 96247
PANASONIC MAGNETRON LAB.
PANASONIC INDUSTRIAL COMPANY
1707 N. Randall Road
Elgin, IL 60123-7847

MEASUREMENT SITE: (Line Conducted Emissions).

FCC Registration Number 767285
Jiangsu TUV Product Service Ltd.
10 Huaxia M. Rd.
Wuxi, Jiangsu, 214100 China

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EXHIBIT 1-2

7. EQUIPMENT IDENTIFICATION:

Model No. : NN-P994BFR, NN-P994SFR, NN-P994WFR
Brand Name : Panasonic
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Model No. : NN-T995SF
Brand Name : Panasonic
FCC ID : ACLAP7A01

Model No. : NN-T994SFR
Brand Name : Panasonic
FCC ID : ACLAP7A01

Model No. : NN-T985SF
Brand Name : Panasonic
FCC ID : ACLAP7A01

Model No. : NN-T975SF
Brand Name : Panasonic
FCC ID : ACLAP7A01

Model No. : NN-H965BF/WE
Brand Name : Panasonic
FCC ID : ACLAP7A01

Model No. : NN-T965SF
Brand Name : Panasonic
FCC ID : ACLAP7A01

Model No. : NN-T964SFR
Brand Name : Panasonic
FCC ID : ACLAP7A01

Model No. : NN-T955SF
Brand Name : Panasonic
FCC ID : ACLAP7A01

Model No. : NN-S954BFR, NN-S954WFR
Brand Name : Panasonic
FCC ID : ACLAP7A01

Model No. : NN-T945SF
Brand Name : Panasonic
FCC ID : ACLAP7A01

Model No. : NN-H935BF, NN-H935WF
Brand Name : Panasonic
FCC ID : ACLAP7A01

Model No. : NN-S935BF, NN-S935WF
Brand Name : Panasonic
FCC ID : ACLAP7A01

Model No. : NN-T935SF
Brand Name : Panasonic
FCC ID : ACLAP7A01

Model No. : NN-S934BFR, NN-S934WFR
Brand Name : Panasonic
FCC ID : ACLAP7A01

Model No. : JES2251SJ
Brand Name : G.E.
FCC ID : ACLAP7A01

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EXHIBIT 1-3

8. EQUIPMENT SPECIFICATIONS:

Electrical Power Requirement: 120V, 60Hz, 12.7A
 Nominal Operating Frequency: 2450 MHz
 Maximum RF Energy Generated: 1250 W (IEC 705)
 Magnetron Type: 2M261-M32
 Feed Type and Location: Through the wave guide on the right sidewall of the oven.
 Stirrer: Turntable Type
 Cabinet Dimensions: (W) 606 x (H) 356 x (D) 493 (mm)
 Oven Cavity Dimensions: (W) 469x (H) 278 x (D) 470 (mm)
 Door Viewing Area Dimensions: (W) 369 x (H) 192 (mm)
 Door Seal Type: Slit Choke seal and capacitive seal method

9. DESCRIPTION OF DIFFERENCES

Model No.	NN-P994 BFR/SFR/WFR	NN-T995SF	NN-T994SFR	NN-T985SF	NN-T975SF
Input Power	120Vac, 12.7A	120Vac, 12.7A	120Vac, 12.7A	120Vac, 12.7A	120Vac, 12.7A
Output Power	1250W	1250W	1250W	1250W	1250W
Magnetron	2M261-M32	2M261-M32	2M261-M32	2M261-M32	2M261-M32
Brand	Panasonic	Panasonic	Panasonic	Panasonic	Panasonic

Model No.	NN-H965BF/WF	NN-T965SF	NN-S964SFR	NN-T955SF	NN-S954BFR/ WFR
Input Power	120Vac, 12.7A	120Vac, 12.7A	120Vac, 12.7A	120Vac, 12.7A	120Vac, 12.7A
Output Power	1250W	1250W	1250W	1250W	1250W
Magnetron	2M261-M32	2M261-M32	2M261-M32	2M261-M32	2M261-M32
Brand	Panasonic	Panasonic	Panasonic	Panasonic	Panasonic

Model No.	NN-T945SF	NN-H935 BF/WF	NN-S935 BF/WF	NN-T935SF	NN-S934 BFR/WFR	JES2251SJ
Input Power	120Vac, 12.7A	120Vac, 12.7A	120Vac, 12.7A	120Vac, 12.7A	120Vac, 12.7A	120Vac, 12.7A
Output Power	1250W	1250W	1250W	1200W	1250W	1250W
Magnetron	2M261-M32	2M261-M32	2M261-M32	2M261-M32	2M261-M32	2M261-M32
Brand	Panasonic	Panasonic	Panasonic	Panasonic	Panasonic	G.E.

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EXHIBIT 2

PHOTOGRAPHS OF EQUIPMENT

EXHIBIT 2-A: FRONT VIEW OF MODEL NN-H965WF

EXHIBIT 2-B: FRONT VIEW DOOR OPEN, MODEL NN-H965WF

EXHIBIT 2-C1: LEFT SIDE VIEW OF MODEL NN-H965WF

EXHIBIT 2-C2: LEFT SIDE VIEW OF MODEL NN-H965WF WITH ENCLOSURE REMOVED

EXHIBIT 2-D1: RIGHT SIDE VIEW OF MODEL NN-H965WF

EXHIBIT 2-D2: RIGHT SIDE VIEW OF MODEL NN-H965WF WITH ENCLOSURE REMOVED

EXHIBIT 2-E: REAR VIEW OF MODEL NN-H965WF

EXHIBIT 2-F1: TOP VIEW OF MODEL NN-H965WF

EXHIBIT 2-F2: TOP VIEW OF MODEL NN-H965WF, WITH ENCLOSURE REMOVED

EXHIBIT 2-G: BOTTOM VIEW OF MODEL NN-H965WF

EXHIBIT 2-H: VIEW OF CONTROL CIRCUITRY

EXHIBIT 2-I: VIEW OF POWER LINE FILTER CIRCUITRY

EXHIBIT 2-J: VIEW OF INVERTER POWER SUPPLY

EXHIBIT 2-K: VIEW OF MAGNETRON TYPE 2M261-M32

EXHIBIT 2-L: VIEW OF DOOR CHOKE CONSTRUCTION ILLUSTRATING INTEGRAL CHOKE TYPE.

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EXHIBIT 5A

REPORT OF MEASUREMENTS

1. MODEL NO.: NN-H965WF
SERIAL NO. PP-5002
MAGNETRON TYPE NO.: 2M261-M32

2. MEASUREMENT DATE: 11/12/04

3. LIST OF MEASURING EQUIPMENT AND CALIBRATION DATA:
REFER TO ATTACHED EXHIBIT 6

4. INVESTIGATED FREQUENCY RANGE: 100Mhz to 4th Harmonic

5. DATA SUMMARY:

Safety Check :	<u><0.02 MW/cm²</u>		
Radiated Field Strength:	($\mu\text{V/m}$ @ 300m)		Limit
Fundamental:	<u>2456 MHz</u>	<u>1237.06$\mu\text{V/m}$</u>	N/A
2nd. Harmonic:	<u>4900 MHz</u>	<u>16.41$\mu\text{V/m}$</u>	36.36
3rd. Harmonic:	<u>7331 MHz</u>	<u>1.53$\mu\text{V/m}$</u>	"
4th. Harmonic:	<u>9810 MHz</u>	<u>1.91$\mu\text{V/m}$</u>	"
Spurious:	<u>2534 Mhz</u>	<u>0.62$\mu\text{V/m}$</u>	"
Emission Sideband:	<u>2400 MHz</u>	<u>0.37$\mu\text{V/m}$</u>	"
Emission Sideband:	<u>2500 MHz</u>	<u>1.62$\mu\text{V/m}$</u>	"

Greater than 4th. Harmonic not measurable

Maximum Frequency Variation: 2458 to 2460 MHz
(96V ~ 150V/ 1500 ml water load)

Maximum Frequency Variation: 2458 to 2461 MHz
(1500 ml - 300ml water load)

Total Power Input to Oven: 2025 watts

Power Developed in Dummy Load: 1058 watts

Supply Voltage: 120 Volts, 60Hz, 17.0A

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EXHIBIT 5B

REPORT OF MEASUREMENTS

1. MODEL NO.: NN-H765WF
SAMPLE NO. S41105041
MAGNETRON TYPE NO.: 2M261-M32

2. MEASUREMENT DATE: 11/09/04

3. LIST OF MEASURING EQUIPMENT AND CALIBRATION DATA:
REFER TO ATTACHED EXHIBIT 6B

4. INVESTIGATED FREQUENCY RANGE: 0.15MHz to 30MHz

5. DATA SUMMARY: Selected Peak Readings (Refer to Spectrum Analyzer plot for complete readings).

Power Line High Side

Frequency MHz	QP Level dBuV	QP Limit dBuV	QP Delta dB
14.38	44.35	60.00	15.65
16.1	54.40	60.00	5.60
Frequency MHz	AV Level dBuV	AV Limit dBuV	AV Delta dB
16.11	48.52	50.00	1.48

Power Line Neutral Side

Frequency MHz	QP Level dBuV	QP Limit dBuV	QP Delta dB
0.17	57.74	64.96	7.22
0.22	55.71	62.82	7.11
16.05999	52.28	60.00	7.72
16.9	53.25	60.00	6.75
Frequency MHz	AV Level dBuV	AV Limit dBuV	AV Delta dB
0.17	38.38	54.96	16.58
16.05999	43.06	50.00	6.94
16.91	48.11	50.00	1.89

