

APPLICATION FOR CERTIFICATION

ACLAP6S21

<u>MODEL NO.</u>	<u>FCC ID</u>
NN-S335BF	ACLAP6S21
NN-S335MF	ACLAP6S21
NN-S335WF	ACLAP6S21

LIST OF EXHIBITS

- EXHIBIT 1: TECHNICAL REPORT
- EXHIBIT 2: PHOTOGRAPHS OF MAGNETRON AND COMPONENTS
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- EXHIBIT 4: SCHEMATIC DIAGRAM
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- EXHIBIT 6: LIST OF MEASURING EQUIPMENT AND CALIBRATION
- EXHIBIT 7: OPERATING INSTRUCTIONS
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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:

SHANGHAI MATSUSHITA MICROWAVE OVEN CO. LTD.
868 Long Dong Road
Pu Dong, Shanghai 201203 CHINA

6. MEASUREMENT SITE:

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

7. EQUIPMENT IDENTIFICATION

Model No. : NN-S335BF, NN-S335MF, NN-S335WF
Brand Name : Panasonic
FCC ID : ACLAP6S21

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EXHIBIT 1A

7. EQUIPMENT SPECIFICATIONS:

Electrical Power Requirement: 120V, 60Hz, 10.5A

Nominal Operating Frequency: 2450 MHz

Maximum RF Energy Generated: 800 W (IEC 705)

Magnetron Type: 2M211, or OM52S

Feed Type and Location: Through the wave guide
on the right sidewall of the oven.

Stirrer: Turntable Type

Cabinet Dimensions: (W) 482 x (H) 282 x (D) 354 (mm)

Oven Cavity Dimensions: (W) 325 x (H) 218 x (D) 330 (mm)

Door Viewing Area Dimensions: (W) 204 x (H) 102 (mm)

Door Seal Type: Slit Choke seal and capacitive seal method

8. DESCRIPTION OF DIFFERENCES

Model No.	NN-S335 BF/MF/WF	NN-S355 BF/MF/WF
Input Power	120Vac, 10.5A	120Vac, 10.5A
Output Power	800W	800W
Magnetron	2M211	OM52S
Brand	Panasonic	Samsung

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EXHIBIT 2

PHOTOGRAPHS OF EQUIPMENT

EXHIBIT 2-A: FRONT VIEW OF MODEL NN-S335WF

EXHIBIT 2-B: FRONT VIEW DOOR OPEN, MODEL NN-S335WF

EXHIBIT 2-C1: LEFT SIDE VIEW OF MODEL NN-S335WF

EXHIBIT 2-C2: LEFT SIDE VIEW OF MODEL NN-S335WF WITH ENCLOSURE REMOVED

EXHIBIT 2-D1: RIGHT SIDE VIEW OF MODEL NN-S335WF

EXHIBIT 2-D2: RIGHT SIDE VIEW OF MODEL NN-S335WF WITH ENCLOSURE REMOVED

EXHIBIT 2-E: REAR VIEW OF MODEL NN-S335WF

EXHIBIT 2-F1: TOP VIEW OF MODEL NN-S335WF

EXHIBIT 2-F2: TOP VIEW OF MODEL NN-S335WF WITH ENCLOSURE REMOVED

EXHIBIT 2-G: BOTTOM VIEW OF MODEL NN-S335WF

EXHIBIT 2-H: VIEW OF CONTROL CIRCUITRY, MODEL NN-S335WF

EXHIBIT 2-I: VIEW OF MAGNETRON TYPE 2M211

EXHIBIT 2-J: VIEW OF MAGNETRON TYPE OM52S

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EXHIBIT 5A-1

REPORT OF MEASUREMENTS

1. MODEL NO.: NN-S335WF
SERIAL NO. PP-0001
MAGNETRON TYPE NO.: **2M211** (**PANASONIC**)

2. MEASUREMENT DATE: 4/23/04

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:	(<u>uV/m @ 300m</u>)	Limit
Fundamental:	<u>2470 MHz</u> <u>1237.06uv/m</u>	N/A
2nd. Harmonic:	<u>4934 MHz</u> <u>5.19uv/m</u>	28.98
3rd. Harmonic:	<u>7398 MHz</u> <u>2.43uv/m</u>	"
4th. Harmonic:	<u>10265 MHz</u> <u>1.20uv/m</u>	"
Spurious:	<u>2325 Mhz</u> <u>0.25uv/m</u>	"
Emission Sideband:	<u>2400 MHz</u> <u>0.23uv/m</u>	"
Emission Sideband:	<u>2500 MHz</u> <u>0.26uv/m</u>	"

Greater than 4th. Harmonic not measurable

Maximum Frequency Variation: 2464 to 2466 MHz
(96V ~ 150V/ 1000 ml water load)

Maximum Frequency Variation: 2466 to 2472 MHz
(1000 ml - 200ml water load)

Total Power Input to Oven: 1400 watts

Power Developed in Dummy Load: 672 watts

Supply Voltage: 120 Volts, 60Hz, 12.5A

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EXHIBIT 5A-2

REPORT OF MEASUREMENTS

1. MODEL NO.: NN-S335WF
SERIAL NO. PP-0002
MAGNETRON TYPE NO.: **OM52S (SAMSUNG)**

2. MEASUREMENT DATE: 4/23/04

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>2469 MHz</u> <u>1557.37$\mu\text{v/m}$</u>	N/A
2nd. Harmonic:	<u>4939 MHz</u> <u>1.64$\mu\text{v/m}$</u>	28.22
3rd. Harmonic:	<u>7392 MHz</u> <u>7.67$\mu\text{v/m}$</u>	"
4th. Harmonic:	<u>9877 MHz</u> <u>1.91$\mu\text{v/m}$</u>	"
Spurious:	<u>2321 Mhz</u> <u>0.28$\mu\text{v/m}$</u>	"
Emission Sideband:	<u>2400 MHz</u> <u>0.30$\mu\text{v/m}$</u>	"
Emission Sideband:	<u>2500 MHz</u> <u>0.26$\mu\text{v/m}$</u>	"

Greater than 4th. Harmonic not measurable

Maximum Frequency Variation: 2464 to 2465 MHz
(96V ~ 150V/ 1000 ml water load)

Maximum Frequency Variation: 2464 to 2468 MHz
(1000 ml - 200ml water load)

Total Power Input to Oven: 1337.5 watts

Power Developed in Dummy Load: 637 watts

Supply Voltage: 120 Volts, 60Hz, 12.4A