

Note: This application is made as a Class 2 permissive change to the original filing with the FCC identifier ACLAP4W01, and a Grant of Certification dated 1/31/00.

The differences in construction, from the original application, are only the addition of two possible alternate magnetrons (Types 2M261-M32 and 2M258-M32).

This application is also adding an additional producing factory, located in Shanghai, China. All models produced at this factory will have an added suffix "F" as part of the model number. A sample of the FCC label is sent under exhibit 3A, for the Shanghai, China factory.

The added information to this report is located at the end, in bold type. A complete re-submission is not being sent as some exhibits do not change.

The original application information is included only for comparison purposes. The original application filed shows only magnetron type 2M261-M32 employed.

ACLAP4W01

APPLICATION FOR CERTIFICATION

| <u>MODEL NO.</u> | <u>FCC ID</u> |
|------------------|---------------|
| NN-S780BA | ACLAP4W01 |
| NN-S780WA | ACLAP4W01 |
| NN-S780BAS | ACLAP4W01 |
| NN-S780WAS | ACLAP4W01 |
| NN-S760BA | ACLAP4W01 |
| NN-S760WA | ACLAP4W01 |
| NN-S760BAS | ACLAP4W01 |
| NN-S760WAS | ACLAP4W01 |
| NN-S750BA | ACLAP4W01 |
| NN-S750WA | ACLAP4W01 |
| NN-S750BAS | ACLAP4W01 |
| NN-S750WAS | ACLAP4W01 |
| NN-S740BA | ACLAP4W01 |
| NN-S740WA | ACLAP4W01 |
| NN-L730BA | ACLAP4W01 |
| NN-L720BA | ACLAP4W01 |

LIST OF EXHIBITS

EXHIBIT 1: TECHNICAL REPORT

EXHIBIT 2: PHOTOGRAPHS OF MAGNETRON AND COMPONENTS

EXHIBIT 3: SAMPLES AND LOCATION OF FCC ID LABEL

EXHIBIT 4: SCHEMATIC DIAGRAM

EXHIBIT 5: REPORT OF MEASUREMENTS

EXHIBIT 6: LIST OF MEASURING EQUIPMENT AND CALIBRATION

EXHIBIT 7: OPERATING INSTRUCTIONS

EXHIBIT 8: INSTALLATION INSTRUCTIONS

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, Division of
MATSUSHITA ELECTRIC CORPORATION of AMERICA
9333 W. Grand Avenue
Franklin Park, Illinois 60131

5. MANUFACTURER:

MATSUSHITA HOME APPLIANCE COMPANY, Division of
MATSUSHITA ELECTRIC CORPORATION of AMERICA
1355 Lebanon Road
Danville, Kentucky 404203

6. MEASUREMENT SITE:

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

ACLAP4W01
EXHIBIT 1-2

7. EQUIPMENT IDENTIFICATION:

Model No. : NN-S780BA, NN-S780WA, NN-S780BAS, NN-S780WAS

Brand Name : Panasonic

FCC ID : ACLAP4W01

Model No. : NN-S760BA, NN-S760WA, NN-S760BAS, NN-S760WAS

Brand Name : Panasonic

FCC ID : ACLAP4W01

Model No. : NN-S750BA, NN-S750WA, NN-S750BAS, NN-S750WAS

Brand Name : Panasonic

FCC ID : ACLAP4W01

Model No. : NN-S740BA, NN-S740WA

Brand Name : Panasonic

FCC ID : ACLAP4W01

Model No. : NN-L730BA

Brand Name : Panasonic

FCC ID : ACLAP4W01

Model No. : NN-L720BA

Brand Name : Panasonic

FCC ID : ACLAP4W01

ACLAP4W01
EXHIBIT 1A

7. EQUIPMENT SPECIFICATIONS:

Electrical Power Requirement: 120V, 60Hz, 12.0A

Nominal Operating Frequency: 2450 MHz

Maximum RF Energy Generated: 1300 W (IEC 705)

Magnetron Type: 2M269-M32

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

Stirrer: Turntable Type

Cabinet Dimensions: (W) 555 x (H) 304 x (D) 497 (mm)

Oven Cavity Dimensions: (W) 418 x (H) 228 x (D) 470 (mm)

Door Viewing Area Dimensions: (W) 320 x (H) 150 (mm)

Door Seal Type: Slit Choke seal and capacitive seal method

8. DESCRIPTION OF DIFFERENCES

| | | | | |
|--------------|--------------------------|--------------------------|--------------------------|------------------|
| Model No. | NN-S780 BA/WA/BAS/WAS | NN-S760 BA/WA/BAS/WAS | NN-S750 BA/WA/BAS/WAS | NN-S740 BA/WA |
| Input Power | 120Vac, 12.0A | 120Vac, 12.0A | 120Vac, 12.0A | 120Vac, 12.0A |
| Output Power | 1300W | 1300W | 1300W | 1300W |
| Magnetron | 2M269-M32 | 2M269-M32 | 2M269-M32 | 2M269-M32 |
| Brand | Panasonic | Panasonic | Panasonic | Panasonic |

| | | |
|--------------|---------------|---------------|
| Model No. | NN-L730 BA | NN-L720 BA |
| Input Power | 120Vac, 12.0A | 120Vac, 12.0A |
| Output Power | 1300W | 1300W |
| Magnetron | 2M269-M32 | 2M269-M32 |
| Brand | Panasonic | Panasonic |

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EXHIBIT 2

PHOTOGRAPHS OF EQUIPMENT

EXHIBIT 2-A: FRONT VIEW OF MODEL NN-S780BA

EXHIBIT 2-B: REAR VIEW OF MODEL NN-S780BA

EXHIBIT 2-C: FRONT VIEW OF MODEL NN-S780BA WITH THE DOOR OPENED

EXHIBIT 2-D: TOP VIEW OF MODEL NN-S780BA WITH ENCLOSURE REMOVED

EXHIBIT 2-E: RIGHT SIDE VIEW OF MODEL NN-S780BA WITH ENCLOSURE REMOVED

EXHIBIT 2-F: BOTTOM VIEW OF MODEL NN-S780BA

EXHIBIT 2-G: LEFT SIDE VIEW OF MODEL NN-S780BA WITH ENCLOSURE REMOVED

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

EXHIBIT 2-I: VIEW OF MAGNETRON TYPE 2M269-M32

EXHIBIT 2-K: VIEW OF INVERTER POWER SUPPLY

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EXHIBIT 5A

REPORT OF MEASUREMENTS

1. MODEL NO.: NN-S780BA
SERIAL NO. PP-000160
MAGNETRON TYPE NO.: 2M269-M32

2. MEASUREMENT DATE: 10/27/99

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 : <0.5 MW/cm²

| Radiated Field Strength: (uV/m @ 300m) | | Limit | |
|--|-----------------|-----------------|-------|
| Fundamental: | <u>2447 MHz</u> | <u>620uv/m</u> | N/A |
| 2nd. Harmonic: | <u>4910 MHz</u> | <u>3.27uv/m</u> | 33.80 |
| 3rd. Harmonic: | <u>7330 MHz</u> | <u>1.22uv/m</u> | " |
| 4th. Harmonic: | <u>9775 MHz</u> | <u>1.91uv/m</u> | " |
| Spurious: | <u>2338 Mhz</u> | <u>2.27uv/m</u> | " |
| Emmission Sideband: | <u>2400 MHz</u> | <u>4.68uv/m</u> | " |
| Emmission Sideband: | <u>2500 MHz</u> | <u>0.41uv/m</u> | " |
| Greater than 4th. Harmonic | not measurable | | |

Maximum Frequency Variation: 2448 to 2454 MHz
(96V ~ 150V/ 1500 ml water load)

Maximum Frequency Variation: 2447 to 2451 MHz
(1500 ml - 300ml water load)

Total Power Input to Oven: 2000 watts

Power Developed in Dummy Load: 913 watts

Supply Voltage: 120 Volts, 60Hz, 17.4A

ACLAP4W01

APPLICATION FOR CERTIFICATION

| <u>MODEL NO.</u> | <u>FCC ID</u> |
|------------------|---------------|
| NN-T790SA F | ACLAP4W01 |
| NN-S780BA F | ACLAP4W01 |
| NN-S780WA F | ACLAP4W01 |
| NN-S780BAS F | ACLAP4W01 |
| NN-S780WAS F | ACLAP4W01 |
| NN-S760BA F | ACLAP4W01 |
| NN-S760WA F | ACLAP4W01 |
| NN-S760BAS F | ACLAP4W01 |
| NN-S760WAS F | ACLAP4W01 |
| NN-S750BA F | ACLAP4W01 |
| NN-S750WA F | ACLAP4W01 |
| NN-S750BAS F | ACLAP4W01 |
| NN-S750WAS F | ACLAP4W01 |
| NN-S740BA F | ACLAP4W01 |
| NN-S740WA F | ACLAP4W01 |
| NN-L730BA F | ACLAP4W01 |
| NN-L720BA F | ACLAP4W01 |

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EXHIBIT 7: OPERATING INSTRUCTIONS

EXHIBIT 8: INSTALLATION INSTRUCTIONS

AC LAP4W01
EXHIBIT 1-1A

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, Division of
MATSUSHITA ELECTRIC CORPORATION of AMERICA
9333 W. Grand Avenue
Franklin Park, Illinois 60131

5. MANUFACTURER:

SHANGHAI MATSUSHITA MICROWAVE OVEN COMPANY
868 Long Dong Road
Pu Dong, Shanghai 201203 China

6. MEASUREMENT SITE:

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

ACLAP4W01
EXHIBIT 1-2A

7. EQUIPMENT IDENTIFICATION:

Model No. : NN-T790SA F
Brand Name : Panasonic
FCC ID : ACLAP4W01

Model No. : NN-S780BA F, NN-S780WA F, NN-S780BAS F, NN-S780WAS F
Brand Name : Panasonic
FCC ID : ACLAP4W01

Model No. : NN-S760BA F, NN-S760WA F, NN-S760BAS F, NN-S760WAS F
Brand Name : Panasonic
FCC ID : ACLAP4W01

Model No. : NN-S750BA F, NN-S750WA F, NN-S750BAS F, NN-S750WAS F
Brand Name : Panasonic
FCC ID : ACLAP4W01

Model No. : NN-S740BA F, NN-S740WA F
Brand Name : Panasonic
FCC ID : ACLAP4W01

Model No. : NN-L730BA F
Brand Name : Panasonic
FCC ID : ACLAP4W01

Model No. : NN-L720BA F
Brand Name : Panasonic
FCC ID : ACLAP4W01

ACLAP4W01
EXHIBIT 1A-1

7. EQUIPMENT SPECIFICATIONS:

Electrical Power Requirement: 120V, 60Hz, 12.0A

Nominal Operating Frequency: 2450 MHz

Maximum RF Energy Generated: 1300 W (IEC 705)

Magnetron Type: 2M269-M32, or 2M261-M32, or 2M258-M32

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

Stirrer: Turntable Type

Cabinet Dimensions: (W) 555 x (H) 304 x (D) 497 (mm)

Oven Cavity Dimensions: (W) 418 x (H) 228 x (D) 470 (mm)

Door Viewing Area Dimensions: (W) 320 x (H) 150 (mm)

Door Seal Type: Slit Choke seal and capacitive seal method

8. DESCRIPTION OF DIFFERENCES

| | | | | |
|--------------|---|---|---|---|
| Model No. | NN-T790SA F | NN-S780 BA F/WA F/ BAS F/WAS F | NN-S760 BA F/WA F/ BAS F/WAS F | NN-S750 BA F/WA F/ BAS F/WAS F |
| Input Power | 120Vac, 12.0A | 120Vac, 12.0A | 120Vac, 12.0A | 120Vac, 12.0A |
| Output Power | 1300W | 1300W | 1300W | 1300W |
| Magnetron | 2M269-M32, or 2M261-M32, or 2M258-M32 | 2M269-M32, or 2M261-M32, or 2M258-M32 | 2M269-M32, or 2M261-M32, or 2M258-M32 | 2M269-M32, or 2M261-M32, or 2M258-M32 |
| Brand | Panasonic | Panasonic | Panasonic | Panasonic |

| | | | |
|--------------|---|---|---|
| Model No. | NN-S740 BA F/WA F | NN-L730 BA F | NN-L720 BA F |
| Input Power | 120Vac, 12.0A | 120Vac, 12.0A | 120Vac, 12.0A |
| Output Power | 1300W | 1300W | 1300W |
| Magnetron | 2M269-M32, or 2M261-M32, or 2M258-M32 | 2M269-M32, or 2M261-M32, or 2M258-M32 | 2M269-M32, or 2M261-M32, or 2M258-M32 |
| Brand | Panasonic | Panasonic | Panasonic |

REPORT OF MEASUREMENTS

1. MODEL NO.: NN-S760BA
SERIAL NO. AD014700134
MAGNETRON TYPE NO.: 2M258-M32

2. MEASUREMENT DATE: 7/27/00

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 : <0.5 MW/cm²

| Radiated Field Strength: (uV/m @ 300m) | Limit |
|---|-------|
| Fundamental: <u>2468 MHz</u> <u>283uv/m</u> | N/A |
| 2nd. Harmonic: <u>4947 MHz</u> <u>2.95uv/m</u> | 32.90 |
| 3rd. Harmonic: <u>7415 MHz</u> <u>1.23uv/m</u> | " |
| 4th. Harmonic: <u>9805 MHz</u> <u>1.70uv/m</u> | " |
| Spurious: <u>2505 Mhz</u> <u>0.57uv/m</u> | " |
| Emmission Sideband: <u>2400 MHz</u> <u>0.47uv/m</u> | " |
| Emmission Sideband: <u>2500 MHz</u> <u>0.46uv/m</u> | " |
| Greater than 4th. Harmonic not measurable | |

Maximum Frequency Variation: 2463 to 2466 MHz
(96V ~ 150V/ 1500 ml water load)

Maximum Frequency Variation: 2455 to 2471 MHz
(1500 ml - 300ml water load)

Total Power Input to Oven: 2000 watts

Power Developed in Dummy Load: 866 watts

Supply Voltage: 120 Volts, 60Hz, 17.6A

ACLAP4W01
EXHIBIT 5A-2

REPORT OF MEASUREMENTS

1. MODEL NO.: NN-S760BA
SERIAL NO. AD014700134
MAGNETRON TYPE NO.: 2M261-M32

2. MEASUREMENT DATE: 7/27/00

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 : <0.5 MW/cm²

| Radiated Field Strength: | (uV/m @ 300m) | Limit |
|----------------------------|-----------------|-----------------|
| Fundamental: | <u>2468 MHz</u> | <u>175uv/m</u> |
| 2nd. Harmonic: | <u>4945 MHz</u> | <u>3.31uv/m</u> |
| 3rd. Harmonic: | <u>7413 MHz</u> | <u>1.10uv/m</u> |
| 4th. Harmonic: | <u>9801 MHz</u> | <u>1.51uv/m</u> |
| Spurious: | <u>2531 Mhz</u> | <u>0.57uv/m</u> |
| Emmission Sideband: | <u>2400 MHz</u> | <u>0.53uv/m</u> |
| Emmission Sideband: | <u>2500 MHz</u> | <u>0.51uv/m</u> |
| Greater than 4th. Harmonic | not measurable | |

Maximum Frequency Variation: 2463 to 2467 MHz
(96V ~ 150V/ 1500 ml water load)

Maximum Frequency Variation: 2455 to 2476 MHz
(1500 ml - 300ml water load)

Total Power Input to Oven: 2000 watts

Power Developed in Dummy Load: 912 watts

Supply Voltage: 120 Volts, 60Hz, 17.2A