

APPLICATION FOR CERTIFICATION

MODEL FAMILY ACLAP7B51

| <u>MODEL NO.</u>   | <u>FCC ID</u> |
|--------------------|---------------|
| NN-P794BFR/SFR/WFR | ACLAP7B51     |
| NN-T795SF          | ACLAP7B51     |
| NN-T794SFR         | ACLAP7B51     |
| NN-T785SF          | ACLAP7B51     |
| NN-T775SF          | ACLAP7B51     |
| NN-T774SFR         | ACLAP7B51     |
| NN-H765BF/WF       | ACLAP7B51     |
| NN-T765SF          | ACLAP7B51     |
| NN-T764SFR         | ACLAP7B51     |
| NN-S755BF/WF       | ACLAP7B51     |
| NN-T755SF          | ACLAP7B51     |
| NN-S754BFR/WFR     | ACLAP7B51     |
| NN-T745SF          | ACLAP7B51     |
| NN-H735BF/WF       | ACLAP7B51     |
| NN-S735BF/WF       | ACLAP7B51     |
| NN-T735SF          | ACLAP7B51     |

LIST OF EXHIBITS

EXHIBIT 1A : TECHNICAL REPORT (Radiated Emissions)

EXHIBIT 1B : TECHNICAL REPORT (Line Conducted Emissions)

EXHIBIT 2 : PHOTOGRAPHS OF MAGNETRON AND COMPONENTS

EXHIBIT 3 : SAMPLE AND LOCATION OF FCC ID LABEL

EXHIBIT 4 : SCHEMATIC DIAGRAMS

EXHIBIT 5A : REPORT OF MEASUREMENTS (Radiated Emissions)

EXHIBIT 5B : REPORT OF MEASUREMENTS (Line Conducted Emissions)

EXHIBIT 6A : LIST OF MEASURING EQUIPMENT AND CALIBRATION (Radiated Emissions)

EXHIBIT 6B : LIST OF MEASURING EQUIPMENT AND CALIBRATION (Line Conducted Emissions)

EXHIBIT 7 : OPERATING INSTRUCTIONS

EXHIBIT 8 : INSTALLATION INSTRUCTIONS

ACLAP7B51  
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,  
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

ACLAP7B51  
EXHIBIT 1-2

7. EQUIPMENT IDENTIFICATION:

Model No. : NN-P794BFR, NN-P794SFR NN-P794WFR  
Brand Name : Panasonic  
FCC ID : ACLAP7B51

Model No. : NN-T795SF  
Brand Name : Panasonic  
FCC ID : ACLAP7B51

Model No. : NN-T794SFR  
Brand Name : Panasonic  
FCC ID : ACLAP7B51

Model No. : NN-T785SF  
Brand Name : Panasonic  
FCC ID : ACLAP7B51

Model No. : NN-T775SF  
Brand Name : Panasonic  
FCC ID : ACLAP7B51

Model No. : NN-T774SFR  
Brand Name : Panasonic  
FCC ID : ACLAP7B51

Model No. : NN-H765BF/WF  
Brand Name : Panasonic  
FCC ID : ACLAP7B51

Model No. : NN-T765SF  
Brand Name : Panasonic  
FCC ID : ACLAP7B51

Model No. : NN-T764SFR  
Brand Name : Panasonic  
FCC ID : ACLAP7B51

Model No. : NN-T755SF  
Brand Name : Panasonic  
FCC ID : ACLAP7B51

Model No. : NN-T745SF  
Brand Name : Panasonic  
FCC ID : ACLAP7B51

Model No. : NN-S735BF, NN-S735WF  
Brand Name : Panasonic  
FCC ID : ACLAP7B51

Model No. : NN-S755BF/WF  
Brand Name : Panasonic  
FCC ID : ACLAP7B51

Model No. : NN-S754BFR, NN-S754WFR  
Brand Name : Panasonic  
FCC ID : ACLAP7B51

Model No: NN-H735BF/WF  
Brand Name : Panasonic  
FCC ID : ACLAP7B51

Model No: NN-T735WF  
Brand Name : Panasonic  
FCC ID : ACLAP7B51

ACLAP7B51  
EXHIBIT 1A

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) 518 x (H) 301 x (D) 404 (mm)  
 Oven Cavity Dimensions: (W) 375 x (H) 225 x (D) 386 (mm)  
 Door Viewing Area Dimensions: (W) 296 x (H) 153 (mm)  
 Door Seal Type: Slit Choke seal and capacitive seal method

9. DESCRIPTION OF DIFFERENCES

| Model No.    | NN-P794<br>BFR/SFR/WFR | NN-T795SF        | NN-T794SFR       | NN-T785SF        | NN-T775SF        | NN-T774SFR       |
|--------------|------------------------|------------------|------------------|------------------|------------------|------------------|
| Input Power  | 120Vac,<br>12.7A       | 120Vac,<br>12.7A | 120Vac,<br>12.7A | 120Vac,<br>12.7A | 120Vac,<br>12.7A | 120Vac,<br>12.7A |
| Output Power | 1250W                  | 1250W            | 1250W            | 1250W            | 1250W            | 1200W            |
| Magnetron    | 2M261-M32)             | 2M261-M32        | 2M261-M32        | 2M261-M32        | 2M261-M32        | 2M261-M32        |
| Brand        | Panasonic              | Panasonic        | Panasonic        | Panasonic        | Panasonic        | Panasonic        |

| Model No.    | NN-H765<br>BF/WF | NN-T765SF        | NN-T764SFR       | NN-S755<br>BF/WF | NN-T755SF        | NN-S754<br>BFR/WFR |
|--------------|------------------|------------------|------------------|------------------|------------------|--------------------|
| Input Power  | 120Vac,<br>12.7A | 120Vac,<br>12.7A | 120Vac,<br>12.7A | 120Vac,<br>12.7A | 120Vac,<br>12.7A | 120Vac,<br>12.7A   |
| Output Power | 1250W            | 1250W            | 1250W            | 1250W            | 1250W            | 1250W              |
| Magnetron    | 2M261-M32        | 2M261-M32        | 2M261-M32        | 2M261-M32        | 2M261-M32        | 2M261-M32          |
| Brand        | Panasonic        | Panasonic        | Panasonic        | Panasonic        | Panasonic        | Panasonic          |

| Model No.    | NN-T745SF        | NN-H735<br>BF/WF | NN-S735<br>BF/WF | NN-T735SF        |  |  |
|--------------|------------------|------------------|------------------|------------------|--|--|
| Input Power  | 120Vac,<br>12.7A | 120Vac,<br>12.7A | 120Vac,<br>12.7A | 120Vac,<br>12.7A |  |  |
| Output Power | 1250W            | 1250W            | 1250W            | 1200W            |  |  |
| Magnetron    | 2M261-M32        | 2M261-M32        | 2M261-M32        | 2M261-M32        |  |  |
| Brand        | Panasonic        | Panasonic        | Panasonic        | Panasonic        |  |  |

ACLAP7B51  
EXHIBIT 2

PHOTOGRAPHS OF EQUIPMENT

EXHIBIT 2-A: FRONT VIEW OF MODEL NN-H765WF

EXHIBIT 2-B: FRONT VIEW DOOR OPEN, MODEL NN-H765WF

EXHIBIT 2-C1: LEFT SIDE VIEW OF MODEL NN-H765WF

EXHIBIT 2-C2: LEFT SIDE VIEW OF MODEL NN-H765WF WITH ENCLOSURE REMOVED

EXHIBIT 2-D1: RIGHT SIDE VIEW OF MODEL NN-H765WF

EXHIBIT 2-D2: RIGHT SIDE VIEW OF MODEL NN-H765WF WITH ENCLOSURE REMOVED

EXHIBIT 2-E: REAR VIEW OF MODEL NN-H765WF

EXHIBIT 2-F1: TOP VIEW OF MODEL NN-H765WF

EXHIBIT 2-F2: TOP VIEW OF MODEL NN-H765WF WITH ENCLOSURE REMOVED

EXHIBIT 2-G: BOTTOM VIEW OF MODEL NN-H765WF

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.

ACLAP7B51  
EXHIBIT 5A

REPORT OF MEASUREMENTS

1. MODEL NO.: NN-H765WF  
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>&lt;0.2 MW/cm<sup>2</sup></u> |                    |       |
| Radiated Field Strength: | ( <u>uV/m @ 300m</u> )           |                    | Limit |
| Fundamental:             | <u>2462 MHz</u>                  | <u>1960.61uv/m</u> | N/A   |
| 2nd. Harmonic:           | <u>4924 MHz</u>                  | <u>32.73uv/m</u>   | 36.99 |
| 3rd. Harmonic:           | <u>7339 MHz</u>                  | <u>3.85uv/m</u>    | "     |
| 4th. Harmonic:           | <u>9840 MHz</u>                  | <u>3.02uv/m</u>    | "     |
| Spurious:                | <u>2350 Mhz</u>                  | <u>0.62uv/m</u>    | "     |
| Emission Sideband:       | <u>2400 MHz</u>                  | <u>0.47uv/m</u>    | "     |
| Emission Sideband:       | <u>2500 MHz</u>                  | <u>0.81uv/m</u>    | "     |

Greater than 4th. Harmonic    not measurable

Maximum Frequency Variation: 2458 to 2461 MHz  
(96V ~ 150V/ 1500 ml water load)

Maximum Frequency Variation: 2458 to 2465 MHz  
(1500 ml - 300ml water load)

Total Power Input to Oven: 2075 watts

Power Developed in Dummy Load: 1095 watts

Supply Voltage: 120 Volts, 60Hz, 17.3A

ACLAP7B51  
EXHIBIT 5B

REPORT OF MEASUREMENTS

1. MODEL NO.: NN-H765WF  
SAMPLE NO. S41105031  
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<br>MHz | QP Level<br>dBuV | QP Limit<br>dBuV | QP Delta<br>dB |
|------------------|------------------|------------------|----------------|
| 0.15             | 57.04            | 66.00            | 8.96           |
| 0.235            | 53.49            | 62.27            | 8.78           |
| 14.79            | 42.75            | 60.00            | 17.25          |
| 16.42            | 51.49            | 60.00            | 8.51           |
| Frequency<br>MHz | AV Level<br>dBuV | AV Limit<br>dBuV | AV Delta<br>dB |
| 0.15             | 42.41            | 56.00            | 13.59          |
| 16.39            | 44.33            | 50.00            | 5.67           |

Power Line Neutral Side

| Frequency<br>MHz | QP Level<br>dBuV | QP Limit<br>dBuV | QP Delta<br>dB |
|------------------|------------------|------------------|----------------|
| 0.225            | 55.61            | 62.63            | 7.02           |
| 14.7             | 44.50            | 60.00            | 15.50          |
| 17.95            | 47.45            | 60.00            | 12.55          |
| Frequency<br>MHz | AV Level<br>dBuV | AV Limit<br>dBuV | AV Delta<br>dB |
| 17.94            | 42.99            | 50.00            | 7.01           |

