

**ACLAP7M71**

**APPLICATION FOR CERTIFICATION**

<b><u>MODEL NO.</u></b>	<b><u>BRAND NAME</u></b>	<b><u>FCC ID</u></b>
MCES	Thermador	ACLAP7M71
MCEB	Thermador	“ “ “
MCEW	Thermador	“ “ “
HMB7050	BOSCH	“ “ “
HMB7060	BOSCH	“ “ “
HMB7020	BOSCH	“ “ “

**LIST OF EXHIBITS**

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EXHIBIT 3: SAMPLE AND LOCATION OF FCC ID LABEL

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(Radiated and Line Conductance Emissions)

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(Radiated and Line Conductance Emissions)

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**ACLAP7M71  
EXHIBIT 1**

**TECHNICAL REPORT**

1. DESCRIPTION OF MEASUREMENT FACILITY:

The description of the measurement facility is on file with the FCC laboratory. Please refer to the commission's reference 31040/SIT 1300F2 and 950523A 1300F2

2. OPERATING INSTRUCTIONS & INSTALLATION INSTRUCTIONS:

See EXHIBIT 7.

3. APPLICANT:

PANASONIC HOME APPLIANCE COMPANY of AMERICA,  
MICROWAVE TECHNICAL LAB., E-Zip E2J-16  
1707 N. Randall Road  
Elgin, Illinois 60123-7847

4. MANUFACTURER:

Matsushita Electric Industrial Co., Ltd. Microwave Oven Business Unit  
800 Tsutsui-cho, Yamatokoriyama City, Nara, Japan  
Zip Code: 639-1188

5. MEASUREMENT SITE: (Radiated and Line Conducted Emissions)

Japan Quality Assurance Organization (JQA)  
Kita-Kansai Testing Center  
7-7, Ishimaru 1-Chome, Minoh-shi, Osaka, Japan  
Zip Code: 562-0027

Japan Quality Assurance Organization (JQA)  
Kameoka EMC Branch  
9-1, Ozaki, Inukanno, Nishibetsuin-Cho, Kameoka-Shi, Kyoto, Japan  
Zip Code: 621-0126

6. EQUIPMENT IDENTIFICATION:

<b>Model No.</b>	MCES	MCEB	MCEW	HMB7050	HMB7060	HMB7020
<b>Brand Name</b>	Thermador	Thermador	Thermador	BOSCH	BOSCH	BOSCH
<b>FCC ID.</b>	ACLAP7M71	ACLAP7M71	ACLAP7M71	ACLAP7M71	ACLAP7M71	ACLAP7M71

**ACLAP7M71  
EXHIBIT 1**

7. EQUIPMENT SPECIFICATIONS:

Electrical Power Requirement: 120Vac, 60Hz, 12.8A  
Nominal Operating Frequency: 2450 MHz  
Maximum RF Energy Generated: 1000 W (IEC 705)  
Magnetron Type: 2M236-M1  
Feed Type and Location: Through the wave guide on the right side of the oven.  
Stirrer: Turn Table (Ceramic Tray)  
Cabinet Dimensions: (W) 606 x (H) 376 x (D) 491(mm)  
Oven Cavity Dimensions: (W) 412 x (H) 242 x (D) 426 (mm)  
Door Viewing Area Dimensions: (W) 320 x (H) 182 (mm)  
Door Seal Type: Slit Choke seal and capacitive seal method

8. DESCRIPTION OF DIFFERENCES:

<b>Model No.</b>	<b>Input Power</b>	<b>Output Power (IEC 705)</b>	<b>Magnetron</b>	<b>Brand Name</b>
MCES	120Vac, 12.8A	1000W	2M236-M1	Thermador
MCEB	120Vac, 12.8A	1000W	2M236-M1	Thermador
MCEW	120Vac, 12.8A	1000W	2M236-M1	Thermador
HMB7050	120Vac, 12.8A	1000W	2M236-M1	BOSCH
HMB7060	120Vac, 12.8A	1000W	2M236-M1	BOSCH
HMB7020	120Vac, 12.8A	1000W	2M236-M1	BOSCH

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EXHIBIT 2**

**PHOTOGRAPHS OF EQUIPMENT**

EXHIBIT 2-A: FRONT VIEW OF MODEL MCEW

EXHIBIT 2-B: FRONT VIEW OF MODEL MCEW WITH THE DOOR OPENED

EXHIBIT 2-C1: LEFT SIDE VIEW OF MODEL MCEW

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

EXHIBIT 2-D1: RIGHT SIDE VIEW OF MODEL MCEW

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

EXHIBIT 2-E1: TOP VIEW OF MODEL MCEW

EXHIBIT 2-E2: TOP VIEW OF MODEL MCEW WITH ENCLOSURE REMOVED

EXHIBIT 2-F: BOTTOM VIEW OF MODEL MCEW

EXHIBIT 2-G: REAR VIEW OF MODEL MCEW

EXHIBIT 2-H: VIEW OF POWER INVERTER

EXHIBIT 2-I: VIEW OF POWER LINE FILTER

EXHIBIT 2-J: VIEW OF MAGNETRON TYPE 2M236-M1

EXHIBIT 2-K: VIEW OF CONTROL

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EXHIBIT 5

**REPORT OF MEASUREMENTS (Radiated Emissions)**

1. MODEL NUMBER: HMB7050

SERIAL NUMBER: FD 8609 PP09

MAGNETRON TYPE NO.: 2M236-M1

2. MEASUREMENT DATE: From: 5/19/2006  
To end of testing: 5/25/2006

3. LIST OF MEASURING EQUIPMENT AND CALIBRATION (Radiated and Line Conductance Emissions)  
REFER TO EXHIBIT 6

4. INVESTIGATED FREQUENCY RANGE: 0.15MHz to 9th Harmonic

5. DATA SUMMARY:

Safety Check : 0.05 MW/cm<sup>2</sup>

Radiated Field Strength:	Frequency ( uV/m @ 300m )	Limit
2nd. Harmonic:	<u>4953.9 MHz</u> <u>22.5uv/m</u>	30.1
3rd. Harmonic:	<u>7457.2 MHz</u> <u>14.0uv/m</u>	"
4th. Harmonic:	<u>9926.9 MHz</u> <u>28.2uv/m</u>	"
6th. Harmonic:	<u>14894.3 MHz</u> <u>26.6uv/m</u>	"
8th. Harmonic:	<u>19860.9 MHz</u> <u>1.90uv/m</u>	"
9th. Harmonic:	<u>22306.8 MHz</u> <u>2.10uv/m</u>	"
Spurious:	<u>2350.0 MHz</u> <u>19.8uv/m</u>	"
Spurious:	<u>2380.5 MHz</u> <u>19.3uv/m</u>	"
Emission Sideband:	<u>2387.8 MHz</u> <u>21.3uv/m</u>	"
Emission Sideband:	<u>2505.0 MHz</u> <u>18.1uv/m</u>	"

Maximum Frequency Variation: 2478.7 to 2499.0 MHz

(96V ~ 150V/ 1000 ml water load)

Total Power Input to Oven: 1720 watts

Power Developed in Dummy Load: 828 watts

Supply Voltage: 120 Volts, 60Hz, 14.6A

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EXHIBIT 5**

**REPORT OF MEASUREMENTS (Line Conductance)**

1. MODEL NO.: HMB7050  
SAMPLE NO. FD 8609 PP09

MAGNETRON TYPE NO.: 2M236-M1

2. MEASUREMENT DATE: From: 5/19/2006  
To end of testing: 5/25/2006

3. LIST OF MEASURING EQUIPMENT AND CALIBRATION (Radiated and Line Conductance Emissions)  
REFER TO ATTACHED EXHIBIT 6

4. INVESTIGATED FREQUENCY RANGE: 0.17MHz to 30MHz

5. DATA SUMMARY: Selected Peak Readings

Power Line High Side

Frequency MHz	QP Level dBuV	QP Limit dBuV	QP Delta dB	Ave. Level dBuV	Ave. Limit dBuV	Ave. Delta dB
0.17	49.2	65.1	15.9	--	55.1	--
0.22	49.2	62.7	13.5	--	52.7	--
0.45	45.1	56.8	11.7	35.0	46.8	11.8
0.77	41.1	56.0	14.9	--	46.0	--
2.28	36.2	56.0	19.8	--	46.0	--
12.40	33.6	60.0	26.4	--	50.0	--
17.00	47.7	60.0	12.3	--	50.0	--
17.70	48.7	60.0	11.3	36.0	50.0	14.0
18.00	36.7	60.0	23.3	--	50.0	--
27.00	21.9	60.0	38.1	--	50.0	--

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EXHIBIT 5**

Power Line Neutral Side

Frequency MHz	QP Level dBuV	QP Limit dBuV	QP Delta dB	Ave. Level dBuV	Ave. Limit dBuV	Ave. Delta dB
0.17	51.2	65.1	13.9	--	55.1	--
0.22	52.2	62.7	10.5	40.0	52.7	12.7
0.45	46.1	56.8	10.7	34.0	46.8	12.8
0.77	42.1	56.0	13.9	--	46.0	--
2.28	38.2	56.0	17.8	--	46.0	--
12.40	29.6	60.0	30.4	--	50.0	--
17.00	44.7	60.0	15.3	--	50.0	--
17.70	48.7	60.0	11.3	37.0	50.0	13.0
18.00	44.7	60.0	15.3	--	50.0	--
27.00	23.9	60.0	36.1	--	50.0	--