

ACLAP5Q01

APPLICATION FOR CERTIFICATION

<u>MODEL NO.</u>	<u>FCC ID</u>
NN-G493DMF	ACLAP5Q01
NN-G463MF	ACLAP5Q01
NN-G463WF	ACLAP5Q01

LIST OF EXHIBITS

- EXHIBIT 1: TECHNICAL REPORT
- EXHIBIT 2: PHOTOGRAPHS OF MAGNETRON AND COMPONENTS
- EXHIBIT 3: SAMPLE 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

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EXHIBIT 1

TECHNICAL REPORT

1. DESCRIPTION OF MEASUREMENT FACILITY:

The description of the measurement facility is on file with the FCC laboratory.

2. INSTALLATION INSTRUCTIONS:

See EXHIBIT 7.

3. OPERATING INSTRUCTIONS:

See EXHIBIT 8.

4. APPLICANT:

MATSUSHITA TECHNOLOGY CORPORATION of AMERICA,  
Microwave Technical Laboratory  
1711 N. Randall Road  
Elgin, Illinois 60123-7847

5. MANUFACTURER:

SHANGHAI MATSUSHITA MICROWAVE OVEN COMPANY LTD.  
898 Long Dong Road Pu dong  
Shanghai, 201203 China

6. MEASUREMENT SITE:

Panasonic Magnetron Lab.  
Panasonic Industrial Co.  
1707 N. Randall Road  
Elgin, IL 60123-7847

7. EQUIPMENT IDENTIFICATION:

Model No. : NN-G493DMF, NN-G463MF, NN-G463WF  
Brand Name : Panasonic  
Output Power: 1200W  
FCC ID : ACLAP5Q01

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EXHIBIT 1A

7. EQUIPMENT SPECIFICATIONS:

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

Nominal Operating Frequency: 2450 MHz

Maximum RF Energy Generated: 1200 W (IEC 705)

Grille Heater Power: 1100W

Magnetron Type: 2M261-M32

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

Stirrer: Turntable

Cabinet Dimensions: (W)510 x (H)305 x (D) 380 (mm)

Oven Cavity Dimensions: (W) 359x (H) 217 x (D) 352 (mm)

Door Viewing Area Dimensions: (W) 280 x (H) 152 (mm)

Door Seal Type: Slit Choke seal and capacitive seal method

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EXHIBIT 2

PHOTOGRAPHS OF EQUIPMENT

EXHIBIT 2-A: FRONT VIEW OF MODEL NN-G463WF

EXHIBIT 2-B: FRONT VIEW OF MODEL NN-G463WF WITH THE DOOR OPENED

EXHIBIT 2-C1: LEFT SIDE VIEW OF MODEL NN-G463WF

EXHIBIT 2-C2: LEFT SIDE VIEW OF MODEL NN-G463WF WITH ENCLOSURE REMOVED

EXHIBIT 2-D1: RIGHT SIDE VIEW OF MODEL NN-G463WF

EXHIBIT 2-D2: RIGHT SIDE VIEW OF MODEL NN-G463WF WITH ENCLOSURE REMOVED

EXHIBIT 2-E1: REAR VIEW OF MODEL NN-G463WF

EXHIBIT 2-F1: TOP VIEW OF MODEL NN-G463WF

EXHIBIT 2-F2: TOP VIEW OF MODEL NN-G463WF WITH ENCLOSURE REMOVED

EXHIBIT 2-G: BOTTOM VIEW OF MODEL NN-G463WF

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

EXHIBIT 2-J: VIEW OF CONTROL CIRCUITRY

EXHIBIT 2-K: VIEW OF INVERTER CIRCUITRY

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EXHIBIT 5A

REPORT OF MEASUREMENTS

1. MODEL NO.: NN-G463WF

SERIAL NO. FE-001

MAGNETRON TYPE NO.: 2M261-M32

2. MEASUREMENT DATE: 11/19/02

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

4. INVESTIGATED FREQUENCY RANGE: 100Mhz to 10th Harmonic

5. DATA SUMMARY:

Safety Check :  $\leq 0.06 \text{ MW/cm}^2$

Radiated Field Strength:	( uV/m @ 300m )	Limit
Fundamental	<u>2459 MHz</u> <u>310.74uv/m</u>	-----
2nd. Harmonic	<u>4924 MHz</u> <u>2.60uv/m</u>	34.46
3rd. Harmonic	<u>7992 MHz</u> <u>1.93uv/m</u>	"
4 <sup>th</sup> . Harmonic	<u>10227 MHz</u> <u>1.20uv/m</u>	"
Spurious	<u>2330 MHz</u> <u>0.39uv/m</u>	"
Emission Sideband	<u>2400 MHz</u> <u>5.89uv/m</u>	"
Emission Sideband	<u>2500 MHz</u> <u>0.26uv/m</u>	"

Harmonics greater than 4th. Harmonic not measurable-readings below floor of noise level.

Maximum Frequency Variation: 2463 to 2467 MHz

(98V ~ 150V/ 1500 ml water load)

Maximum Frequency Variation: 2460 to 2468 MHz

(1500 ml - 300ml water load)

Total Power Input to Oven: 1824 watts

Power Developed in Dummy Load: 950 watts

Supply Voltage: 120 Volts, 60Hz, 15.2A