

APPLICATION FOR CERTIFICATION

MODEL FAMILY ACLAP6K51

<u>MODEL NO.</u>	<u>FCC ID</u>
NN-T694SF	ACLAP6K51
NN-T684SF	ACLAP6K51
NN-T664SF	ACLAP6K51
NN-T654SF	ACLAP6K51
NN-T644SF	ACLAP6K51
NN-T624SF	ACLAP6K51
NN-H664BF/MF/WF	ACLAP6K51
NN-S664BF/MF/WF	ACLAP6K51
NN-H654BF/MF/WF	ACLAP6K51
NN-S654BF/MF/WF	ACLAP6K51
NN-H644BF/MF/WF	ACLAP6K51
NN-S644BF/MF/WF	ACLAP6K51
NN-H634BF/MF/WF	ACLAP6K51
NN-S634BF/MF/WF	ACLAP6K51
NN-H624BF/MF/WF	ACLAP6K51
NN-S624BF/MF/WF	ACLAP6K51
NN-H614BF/MF/.WF	ACLAP6K51
NN-S614BF/MF/WF	ACLAP6K51
NN-H604BF/MF/WF	ACLAP6K51
NN-S604BF/MF/WF	ACLAP6K51
NN-H504BF/MF/WF	ACLAP6K51
NN-S504BF/MF/WF	ACLAP6K51

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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:

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

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EXHIBIT 1-2A

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 31040/SIT 1300F2. NVLAP Lab Code 200191-0

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:

JAPAN QUALITY ASSURANCE ORGANIZATION
KITA-KANSAI TESTING CENTER
7-7, Ishimaru 1-Chome
Minoh-shi, Osaka 562-0027 Japan

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EXHIBIT 1-2

7. EQUIPMENT IDENTIFICATION:

Model No. : NN-T694SF
Brand Name : Panasonic
FCC ID : ACLAP6K51

Model No. : NN-T664SF
Brand Name : Panasonic
FCC ID : ACLAP6K51

Model No. : NN-T644SF
Brand Name : Panasonic
FCC ID : ACLAP6K51

Model No. : NN-H664BF, NN-H664MF, NN-H664WF
Brand Name : Panasonic
FCC ID : ACLAP6K51

Model No. : NN-H654BF, NN-H654MF, NN-H654WF
Brand Name : Panasonic
FCC ID : ACLAP6K51

Model No. : NN-H644BF, NN-H644MF, NN-H644WF
Brand Name : Panasonic
FCC ID : ACLAP6K51

Model No. : NN-H634BF, NN-H634MF, NN-H634WF
Brand Name : Panasonic
FCC ID : ACLAP6K51

Model No. : NN-H624BF, NN-H624MF, NN-H624WF
Brand Name : Panasonic
FCC ID : ACLAP6K51

Model No. : NN-H614BF, NN-H614MF, NN-H614WF
Brand Name : Panasonic
FCC ID : ACLAP6K51

Model No. : NN-H604BF, NN-H604MF, NN-H604WF
Brand Name : Panasonic
FCC ID : ACLAP6K51

Model No. : NN-H504BF, NN-H504MF, NN-H504WF
Brand Name : Panasonic
FCC ID : ACLAP6K51

Model No. : NN-T684SF
Brand Name : Panasonic
FCC ID : ACLAP6K51

Model No. : NN-T654SF
Brand Name : Panasonic
FCC ID : ACLAP6K51

Model No. : NN-T624SF
Brand Name : Panasonic
FCC ID : ACLAP6K51

Model No. : NN-S664BF, NN-S664MF, NN-S664WF
Brand Name : Panasonic
FCC ID : ACLAP6K51

Model No. : NN-S654BF, NN-S654MF, NN-S654WF
Brand Name : Panasonic
FCC ID : ACLAP6K51

Model No. : NN-S644BF, NN-S644MF, NN-S644WF
Brand Name : Panasonic
FCC ID : ACLAP6K51

Model No. : NN-S634BF, NN-S634MF, NN-S634WF
Brand Name : Panasonic
FCC ID : ACLAP6K51

Model No. : NN-S624BF, NN-S624MF, NN-S624WF
Brand Name : Panasonic
FCC ID : ACLAP6K51

Model No. : NN-S614BF, NN-S614WF, NN-S614WF
Brand Name : Panasonic
FCC ID : ACLAP6K51

Model No. : NN-S604BF, NN-S604WF, NN-S604WF
Brand Name : Panasonic
FCC ID : ACLAP6K51

Model No. : NN-S504BF, NN-S504WF, NN-S504WF
Brand Name : Panasonic
FCC ID : ACLAP6K51

7. EQUIPMENT SPECIFICATIONS:

8. DESCRIPTION OF DIFFERENCES

[illegible]

Model No.	NN-H624 BF/MF/WF	NN-S624 BF/MF/WF	NN-H614 BF/MF/WF	NN-S614 BF/MF/WF	NN-H604 BF/MF/WF	NN-S604 BF/MF/WF	NN-H504 BF/MF/WF
Input Power	120Vac, 12.7A	120Vac, 12.7A	120Vac, 12.7A	120Vac, 12.7A	120Vac, 12.7A	120Vac, 12.7A	120Vac, 12.7A
Output Power	1250W	1250W	1250W	1250W	1200W	1200W	1200W
Magnetron	2M261-M32 or OM-75PI(21)	2M261-M32 or OM-75PI(21)	2M261-M32 or OM-75PI(21)	2M261-M32 or OM-75PI(21)	2M261-M32 or OM-75PI(21)	2M261-M32 or OM-75PI(21)	2M261-M32 or OM-75PI(21)
Brand	Panasonic	Panasonic	Panasonic	Panasonic	Panasonic	Panasonic	Panasonic

Model No.	NN-S504 BF/MF/WF						
Input Power	120Vac, 12.7A						
Output Power	1200W						
Magnetron	2M261-M32 or OM-75PI(21)						
Brand	Panasonic						

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EXHIBIT 2

PHOTOGRAPHS OF EQUIPMENT

EXHIBIT 2-A: FRONT VIEW OF MODEL NN-S654BF

EXHIBIT 2-B: FRONT VIEW DOOR OPEN, MODEL NN-S654BF

EXHIBIT 2-C1: LEFT SIDE VIEW OF MODEL NN-S654BF

EXHIBIT 2-C2: LEFT SIDE VIEW OF MODEL NN-S654BF WITH ENCLOSURE REMOVED

EXHIBIT 2-D1: RIGHT SIDE VIEW OF MODEL NN-S654BF

EXHIBIT 2-D2: RIGHT SIDE VIEW OF MODEL NN-S654BF WITH ENCLOSURE REMOVED

EXHIBIT 2-E: REAR VIEW OF MODEL NN-S654BF

EXHIBIT 2-F1: TOP VIEW OF MODEL NN-S654BF

EXHIBIT 2-F1: TOP VIEW OF MODEL NN-S654BF WITH ENCLOSURE REMOVED

EXHIBIT 2-G: BOTTOM VIEW OF MODEL NN-S654BF

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

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

EXHIBIT 2-J: VIEW OF CONTROL CIRCUITRY

EXHIBIT 2-K: VIEW OF INVERTER POWER SUPPLY

EXHIBIT 2-L VIEW OF MAGNETRON OM75PI(21)

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EXHIBIT 5A-1

REPORT OF MEASUREMENTS

1. MODEL NO.: NN-S654BF
SERIAL NO. PP-00001
MAGNETRON TYPE NO.: 2M261-M32

2. MEASUREMENT DATE: 10/03/03

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><0.5 MW/cm2</u>		
Radiated Field Strength:	(<u>uV/m @ 300m</u>)		Limit
Fundamental:	<u>2469 MHz</u>	<u>1557.37uv/m</u>	N/A
2nd. Harmonic:	<u>4902 MHz</u>	<u>13.03uv/m</u>	36.35
3rd. Harmonic:	<u>7344 MHz</u>	<u>2.43uv/m</u>	"
4th. Harmonic:	<u>9849 MHz</u>	<u>9.55uv/m</u>	"
Spurious:	<u>2551 Mhz</u>	<u>0.98uv/m</u>	"
Emission Sideband:	<u>2400 MHz</u>	<u>0.26uv/m</u>	"
Emission Sideband:	<u>2500 MHz</u>	<u>0.26uv/m</u>	"

Greater than 4th. Harmonic not measurable

Maximum Frequency Variation: 2461 to 2463 MHz
(98V ~ 150V/ 1500 ml water load)

Maximum Frequency Variation: 2458 to 2462 MHz
(1500 ml - 300ml water load)

Total Power Input to Oven: 2004 watts

Power Developed in Dummy Load: 1057 watts

Supply Voltage: 120 Volts, 60Hz, 16.7A

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EXHIBIT 5A-2

REPORT OF MEASUREMENTS

1. MODEL NO.: NN-T694SF
SERIAL NO. N/A
MAGNETRON TYPE NO.: OM75PI-(21)

2. MEASUREMENT DATE: 10/14/03

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

4. INVESTIGATED FREQUENCY RANGE: 100Mhz to 7th Harmonic

5. DATA SUMMARY:

Safety Check :	<u><0.5 MW/cm2</u>		
Radiated Field Strength:	(uV/m @ 300m)		Limit
2nd. Harmonic:	<u>4910 MHz</u>	<u>16.41uv/m</u>	34.10
3rd. Harmonic:	<u>7370 MHz</u>	<u>16.60uv/m</u>	"
4th. Harmonic:	<u>9850 MHz</u>	<u>4.27uv/m</u>	"
5th. Harmonic:	<u>12300 Mhz</u>	<u><4.22uv/m</u>	"
6th. Harmonic:	<u>14750 Mhz</u>	<u>11.35uv/m</u>	"
7th. Harmonic:	<u>17230 Mhz</u>	<u>16.03uv/m</u>	"
Emission Sideband:	<u>2400 MHz</u>	<u>22.91uv/m</u>	"

Greater than 7th. Harmonic not measurable

Maximum Frequency Variation: 2402 to 2469 MHz
(96V ~ 150V/ 1500 ml water load)

Total Power Input to Oven: 1470 watts

Power Developed in Dummy Load: 929.25 watts

Supply Voltage: 120 Volts, 60Hz, 12.25A