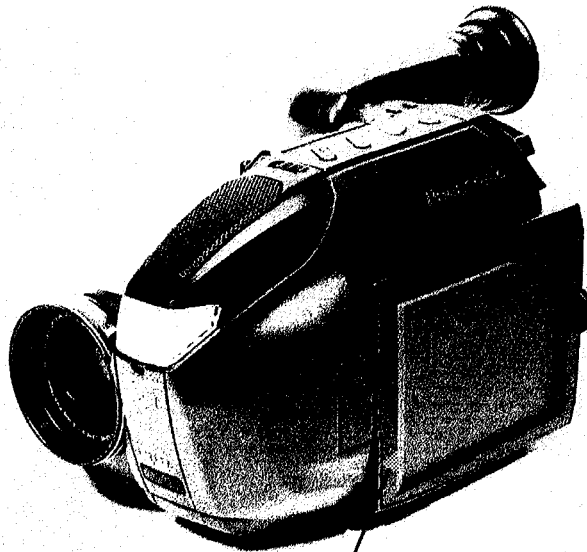
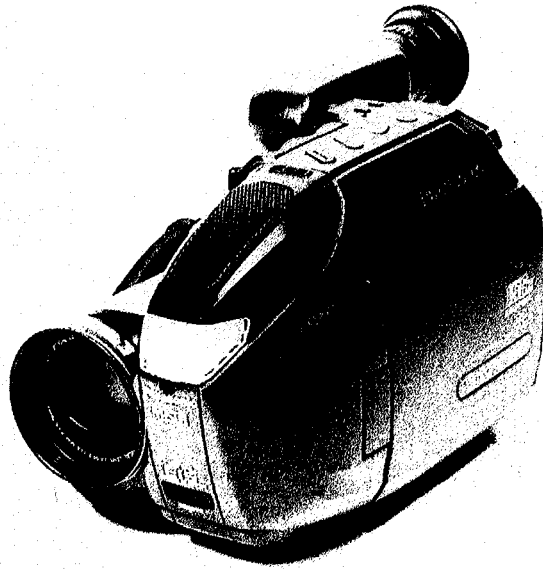


EXHIBIT # _____
FCC ID : ACJ927126L
MODEL No. : PV-L650D
OUR REF. : MKES99-F017



Color LCD electronic view finder
(Part of video camera)

Description of Application Models

FCC ID : ACJ927126L
OUR REF. : MKES99-F017
MODEL NO. : PV-L650D

Application models are as below.

FCC ID : ACJ927126L
Trade Name : Panasonic
Model No. of
Video Camera : PV-L650D
Name of Device : Color LCD Electronic View Finder, part of Video Camera
Grantee Name : Matsushita Electric Industrial Co., Ltd.
Manufacturer : Matsushita-Kotobuki Electronics Ind. Ltd.
Cabinet Material : Plastics

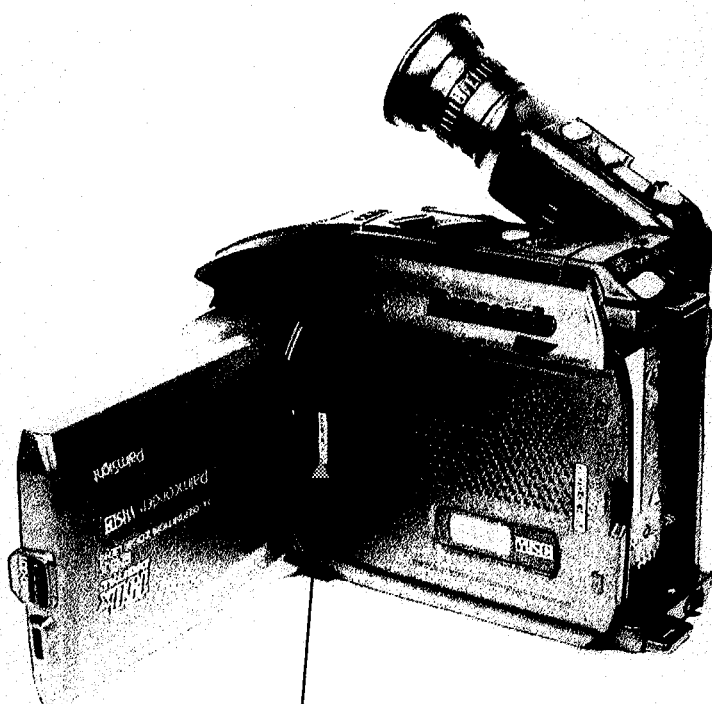
Sample of FCC Identifier

EXHIBIT # : 1
FCC ID : ACJ927126L
OUR REF. : MKES99-F017
MODEL NO. : PV-L650D

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FCC ID : ACJ927126L

EXHIBIT # : 2
FCC ID : ACJ927126L
OUR REF. : MKES99-F017
MODEL NO. : PV-L650D



FCC Identifier

**MATSUSHITA—KOTOBUKI
ELECTRONICS INDUSTRIES LTD.**

SAJO DIVISION DEVELOPMENT ADMINISTRATION DEPT.
ADDRESS: 7793 247 FUKUTAKE, SAJO, EHIME, JAPAN
TELEPHONE: 0897-56-1111 FAX: 0897-56-8142

Date : Sept. 8, 1999

REPORT OF MEASUREMENTS-(Part I)

REQUIRED IN () SUBPART H (TV INTERFACE DEVICE)
(X) Part 18 (ISM EQUIPMENT)

EXHIBIT # : 3
FCC ID : ACJ927126L
OUR REF. : MKES99-F017
MODEL NO. : PV-L650D

Sheet 1 of 5 Sheets

Name of Manufacturer: Matsushita-Kotobuki Electronics Industries Ltd.

Address of Manufacturer: 247 Fukutake, Saijo, Ehime, Japan

Device Under Measurement

FCC ID : ACJ927126L
Model No. : PV-L650D
Trade Name : Panasonic
Applicant : Matsushita Electric Ind. Co., Ltd.

This device is a representative model of KC-2000LCD chassis group.

Data Also Applied To

FCC ID _____ Model No. (Trade Name) _____

Device Description

Name of Device : () Video Cassette Recorder, () Tuner Adaptor
(X) Color LCD Electronic View Finder (Part of Video Camera)
Frequency : 78 kHz $\pm$ 10 kHz
Accessories : AC Adaptor (PV-A17), Earphone
RF Adaptor (PV-RF16), RF out cable (1.3 meter)

Certification

On the basis of the measurement data contained in Part II, all devices bearing the aforementioned FCC ID (model No., chassis No. and trade names) are stated by the undersigned to be capable of complying with the applicable sections of Part 18 of the FCC rules governing restricted radiation devices at the time of manufacture and may be expected to continue to comply under normal conditions and with usual maintenance. The undersigned also states that the device measured was an engineering prototype, pre production, or production unit. If changes are applied to future units and such changes adversely alter spurious radiation, an amended report of measurements will be supplied to the FCC.



K. Ishikawa
Sr. Engineer

Part 18, (ISM EQUIPMENT) - Part II

EXHIBIT # _____
FCC ID : ACJ927126L
MODEL No. : PV-L650D
OUR REF. : MKES99-F017
Sheet 2 of 5 Sheets

Name of Device : Color LCD Electronic View Finder
FCC ID : ACJ927126L
Nominal Operating Frequency : 78 kHz $\pm$ 10 kHz
Rated Power Consumption : DC 6V / 8.5 W, (With Video Camera)
Maximum RF Energy : 2.5 W
Illumination : 1.7 W Fluorescent Lamp
Intended Use : Illumination, Consumer Equipment
Measurement Site : MKS Site
Measurement Procedure : FCC OST MP-5

Note:

(1) Detailed report: Refer to attached sheets.

I HEREBY STATE THAT: The measurements shown in Part II of this form were made in accordance with the procedures indicated and the energy emitted by this equipment was found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements and vouch for the qualifications of all persons taking them.

I FURTHER STATE THAT: On the basis of the measurements made, the device tested is capable of operation in compliance with the requirements of Part 18 of the FCC Rules under normal use and maintenance.


T. Watanabe
Engineer

EXHIBIT # _____
 FCC ID : ACI927126L
 MODEL No. : PV-L650D
 OUR REF. : MKES99-F017

Sheet 3 of 5 Sheets

5) 18.307 Power Line Conducted Interference

Freq. (MHz)	1-end & Gro.	The other- end & Gro.	Factor (dB)	Pad Loss (dB)	1-end & Gro.	The other- end & Gro.	Limits (dBuV)
0.45	31.8	30.2	0.1	6.2	38.1	36.5	48.0
0.53	25.4	24.9	0.1	6.2	31.7	31.2	48.0
0.62	21.2	20.2	0.1	6.2	27.5	26.5	48.0
0.73	22.9	18.3	0.1	6.2	29.2	24.6	48.0
0.83	20.6	13.9	0.1	6.2	26.9	20.2	48.0
1.02	18.5	8.7	0.1	6.2	24.8	15.0	48.0

Note:

1. Sample calculation at 1-end & Gro. 0.45 MHz; $31.8 + 0.1 + 6.2 = 38.1$ (dBuV)
2. Measuring Instruments:
 - a) Field strength meter - Kyoritsu Electric Work Co., Model KNM-402C
 - (1) Detector function: CISPR Q-Peak
 - (2) IF band width : 9kHz
 - (3) Input impedance : 75 ohms
 - b) Line impedance stabilized net work (LISN)
 - Kyoritsu Electric Work Co., Model KNW-406
 - 50 ohms / 50 uH net work
 - c) Matching pad - Kyoritsu Electric Work Co., Model KPD-401
3. The spectrum was checked from 0.45MHz to 30MHz and the six highest emissions relative to the appropriate limit were measured and reported.

EXHIBIT # _____
FCC ID : ACJ927126L
MODEL No. : PV-L650D
OUR REF. : MKES99-F017

Sheet 4 of 5 Sheets

18.307 POWER LINE CONDUCTED INTERFERENCE

- CONFIGURATION OF THE EQUIPMENT UNDER TEST -

(Arrangement of accessories on the test table)

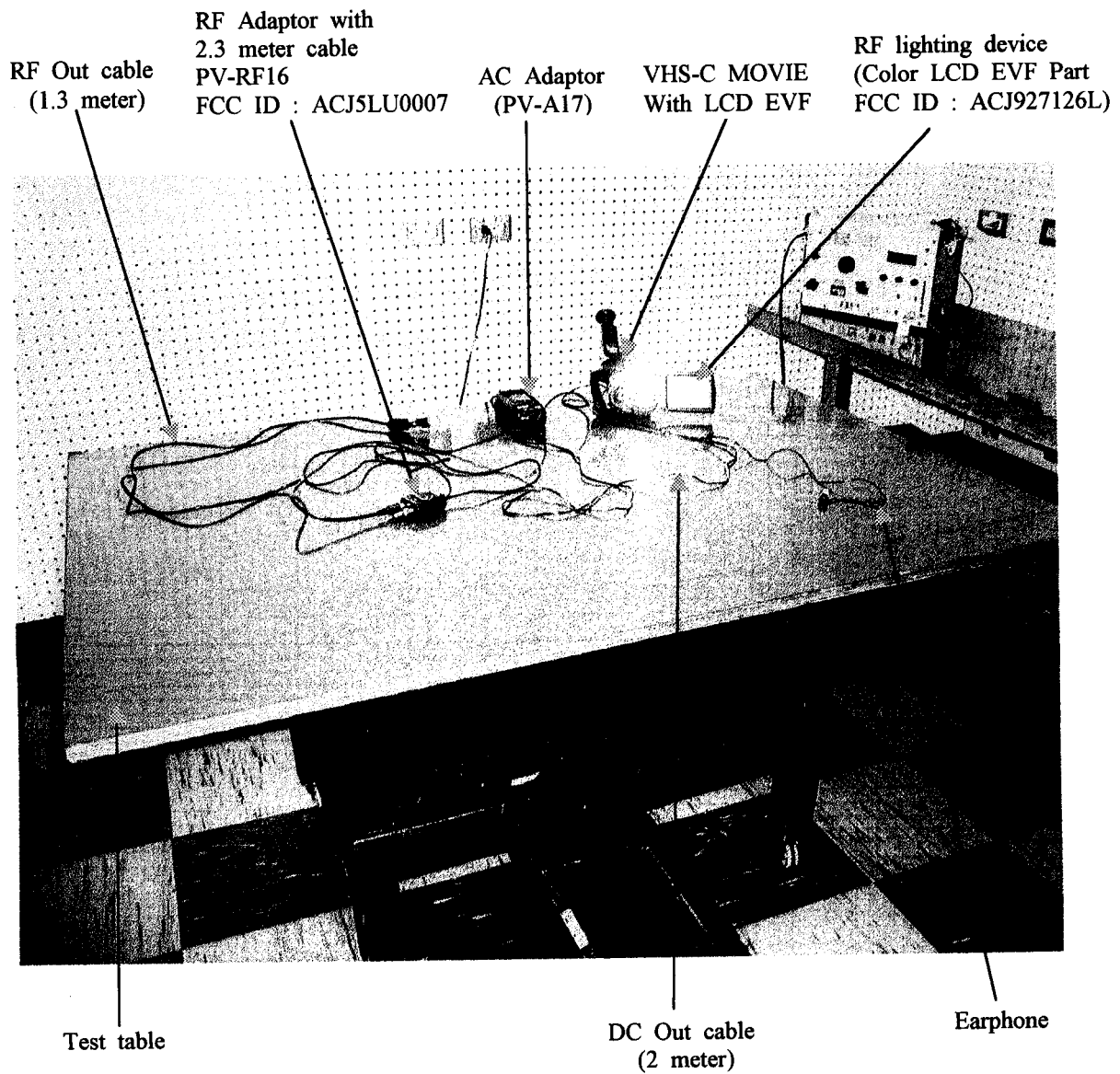
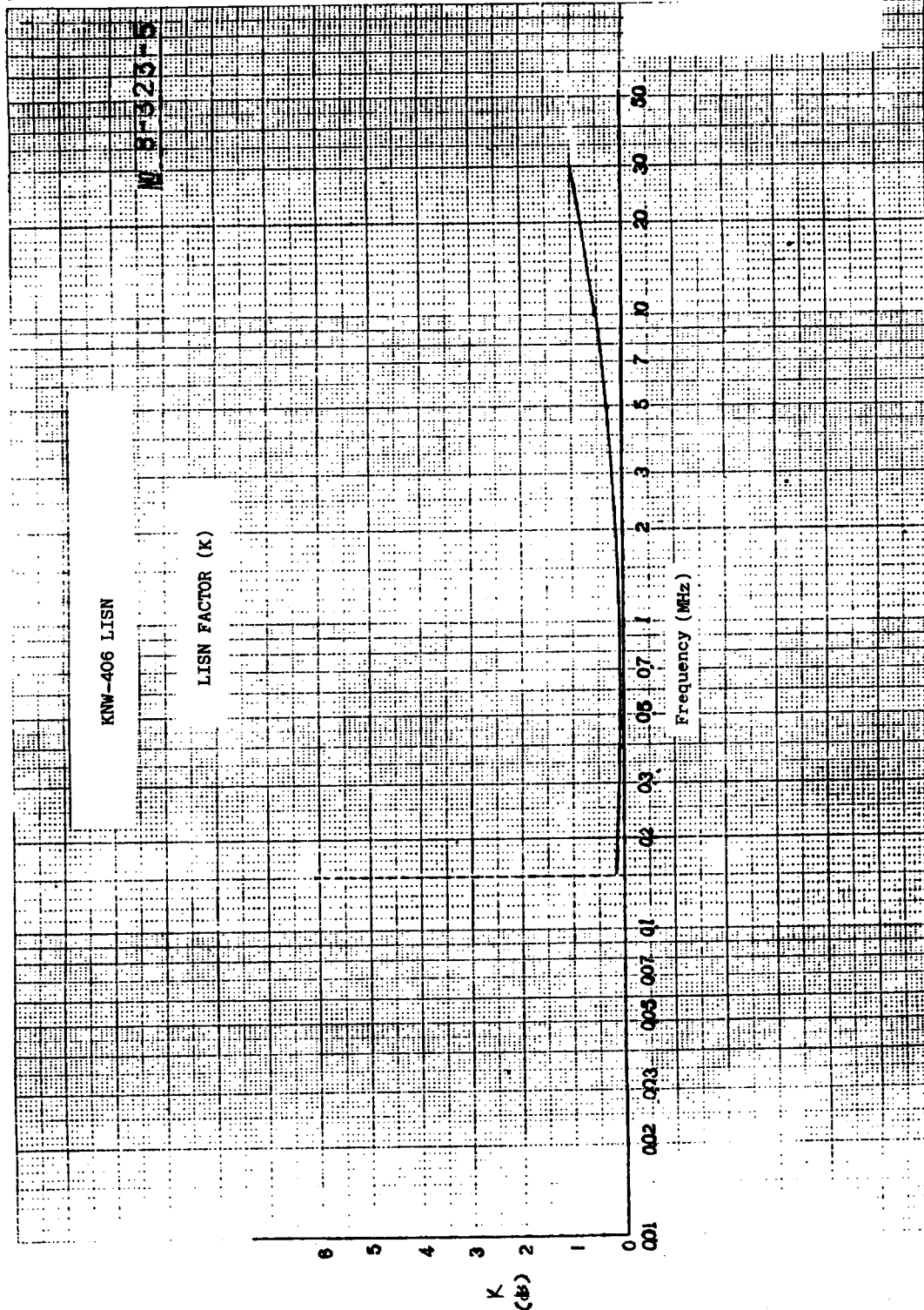


EXHIBIT # _____
 FCC ID : ACJ927126L
 MODEL No. : PV-L650D
 OUR REF. : MKES99-F017
 Sheet 5 of 5 Sheets

JIS A-1 180 × 250 mm



Technical Specification

EXHIBIT # : 4-1
FCC ID : ACJ927126L
OUR REF. : MKES99-F017
MODEL NO.: PV-L650D

Color LCD Electronic View Finder (Part of Video Camera)

Power Source	: Supplied from Video Camera
Power Consumption	: 8.5 W (With Video Camera)
Television System	: EIA Standard (525 lines, 60 fields) NTSC
Video Horizontal Resolution	: More than 250 lines
Illumination	: Built-in 1.4 W fluorescent lamp
Dimensions	: Approx. 15 mm(W) × 110 mm(D) × 84 mm(H)
Weight	: Approx. 200 g
Color	: Black
Operating Humidity	: 10 % - 75 %
Operating Temperature	: 32 °F – 104 °F (0 °C - 40 °C)

Description of RF Lighting Device

EXHIBIT # : 4-2
FCC ID : ACJ927126L
OUR REF. : MKES99-F017
MODEL NO. : PV-L650D

Page 1/3

1) Type(s) of emission

Not applicable

2) Frequency range

78 kHz $\pm$ 10 kHz

3) Range of operating power and description of means provided for variation of operating power

Not applicable

4) Maximum power rating as defined in the applicable rules

Not applicable

5) The voltage applied to and currents into the several elements of the final radio frequency amplifying device for normal operation over the power range.
Indicate whether these voltages and currents are DC or AC.

Input Voltage (circuit diagram Point No. 2) = 4.5 V (DC)

Input Current (circuit diagram Point No. 2) = 380 mA (DC)

6) Function of each electron tube, semiconductor or other active circuit device.

a. Switching transistor

Q9101, Q9102 : 2SD1119 $\times$ 2 or 2SD2150 $\times$ 2

b. Pulse transformer

T9101 : LSLT0030

Input Voltage : 4.5 V DC

Output Voltage : 870 V AC (at no load)

c. Choke coil

L9101 : SLF6028T680M

Inductance : 68 μ H

d. Fluorescent lamp

PL9101 : VLLW0021 or LSLL0016 or LSLL0017

Tube voltage : 350 V AC

Power consumption : 1.4 W

EXHIBIT # : 4-2
FCC ID : ACI927126L
OUR REF. : MKES99-F017
MODEL NO. : PV-L650D

Page 2/3

7) Block diagram

See EXHIBIT # 5

- 8) Operating Instruction manual. If the operating instruction manuals are not available when the application is filed a set of draft instructions should be provided and complete instruction manuals should be submitted as soon as available.

- 9) Tune up procedure over the power range or at specific operating power levels.

Not applicable

- 10) A description of all circuitry and devices provided for deterring and stabilizing frequency.

Oscillator circuit : Blocking oscillator DC-AC inverter

Pulse transformer : LSLT0030

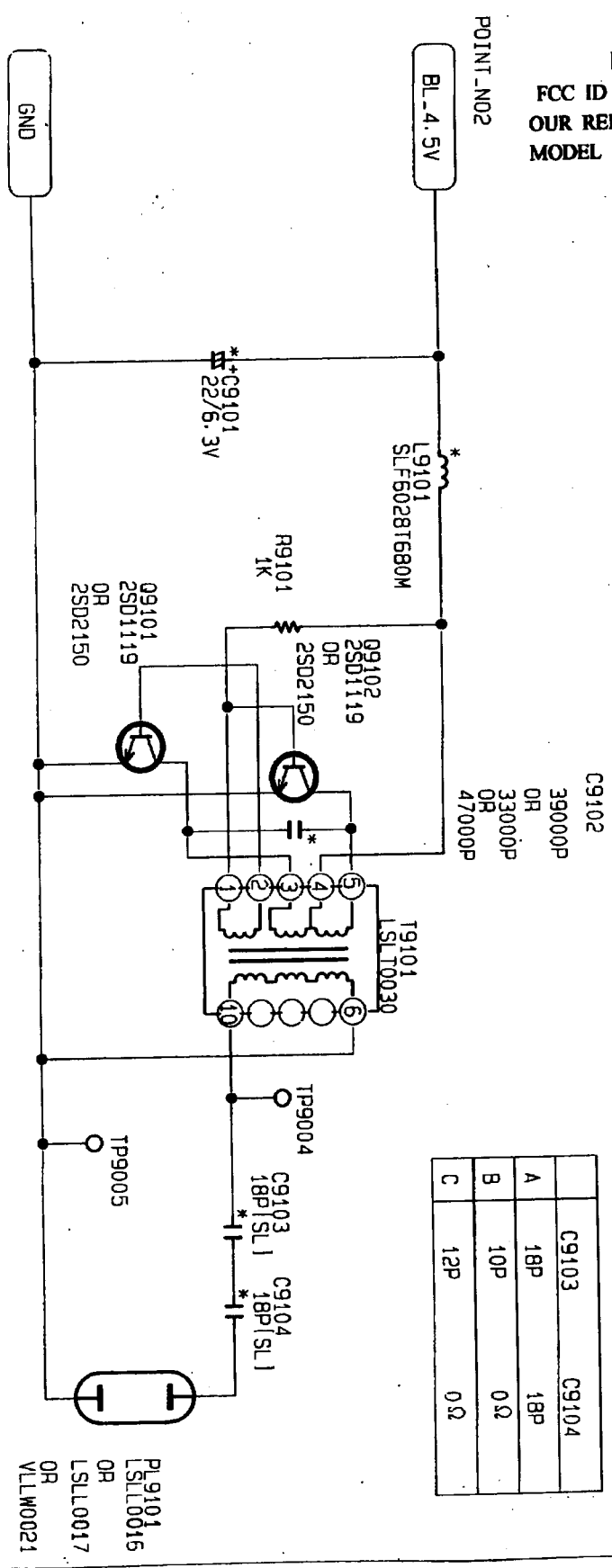
Switching Transistor : Q9101, Q9102 (2SD1119 $\times$ 2 or 2SD2150 $\times$ 2)

- 11) A description of any circuits for devices employed for suppression of spurious radiation, for limiting modulation, and for limiting the operating power.

Not applicable

- 12) A photograph or drawing of the equipment identification label, silk-screened or molding showing the information to be placed there on.

See EXHIBIT # 1 and # 2.



	C9103	C9104
A	18P	18P
B	10P	0Ω
C	12P	0Ω

EXHIBIT # : 4-3
FCC ID : ACJ927126L
OUR REF. : MKES99-F017
MODEL NO. : PV-L650D

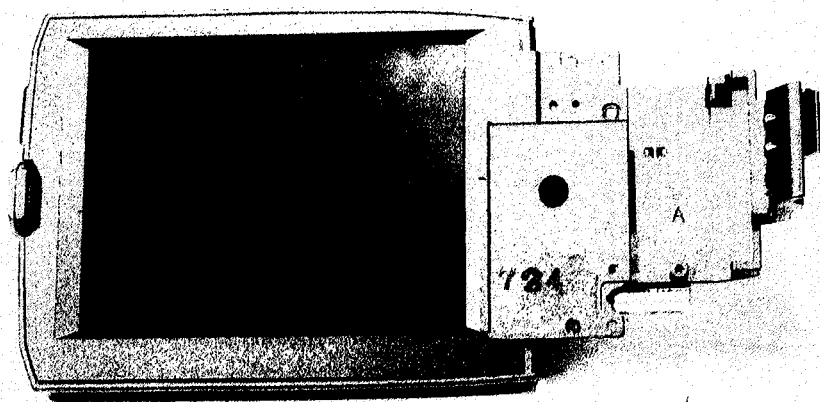
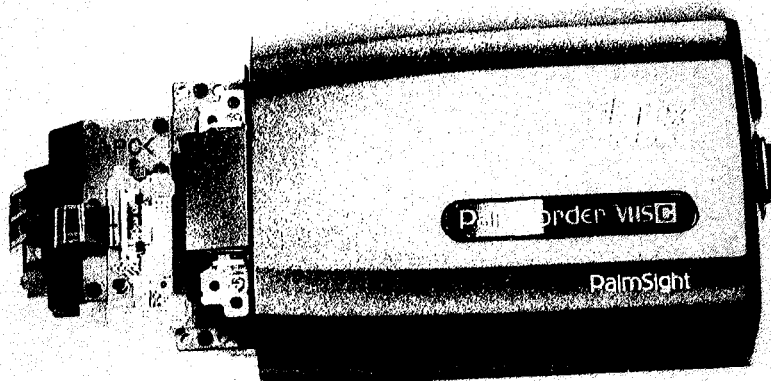


EXHIBIT # : 4-3
FCC ID : ACJ927126L
OUR REF. : MKES99-F017
MODEL NO. : PV-L650D

LCD Power PCB
(Top view)

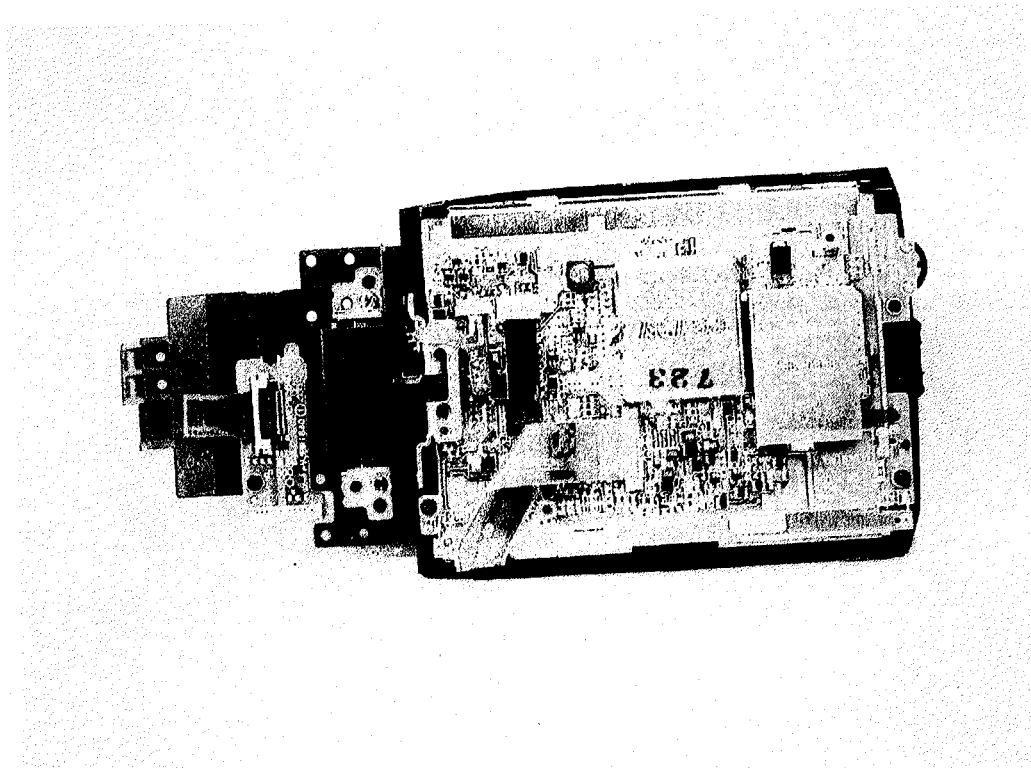
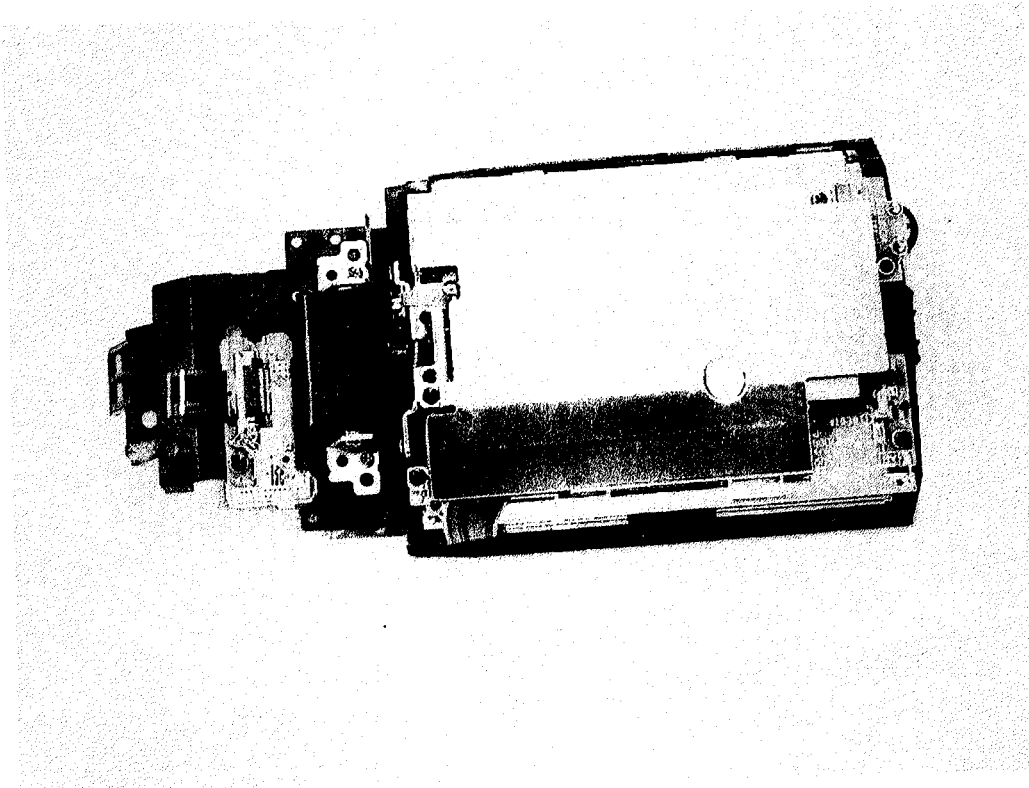
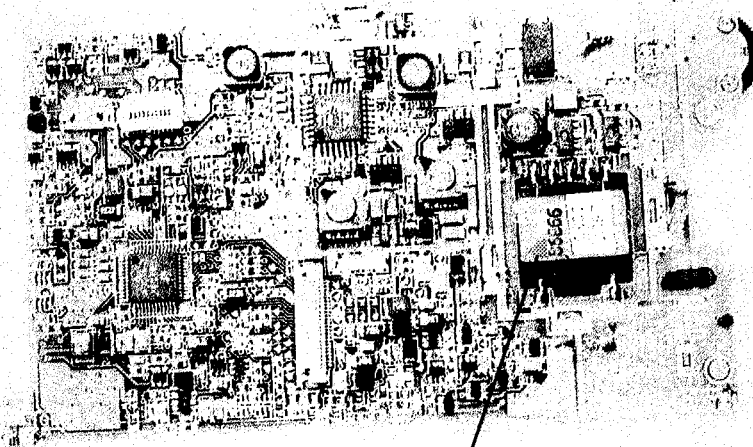


EXHIBIT # : 4-3
FCC ID : ACI927126L
OUR REF. : MKES99-F017
MODEL NO. : PV-L650D

LCD Power PCB
(Top view)



Oscillator circuit

EXHIBIT # : 4-3
FCC ID : ACJ927126L
OUR REF. : MKES99-F017
MODEL NO. : PV-L650D

LCD Power PCB
(Bottom view)

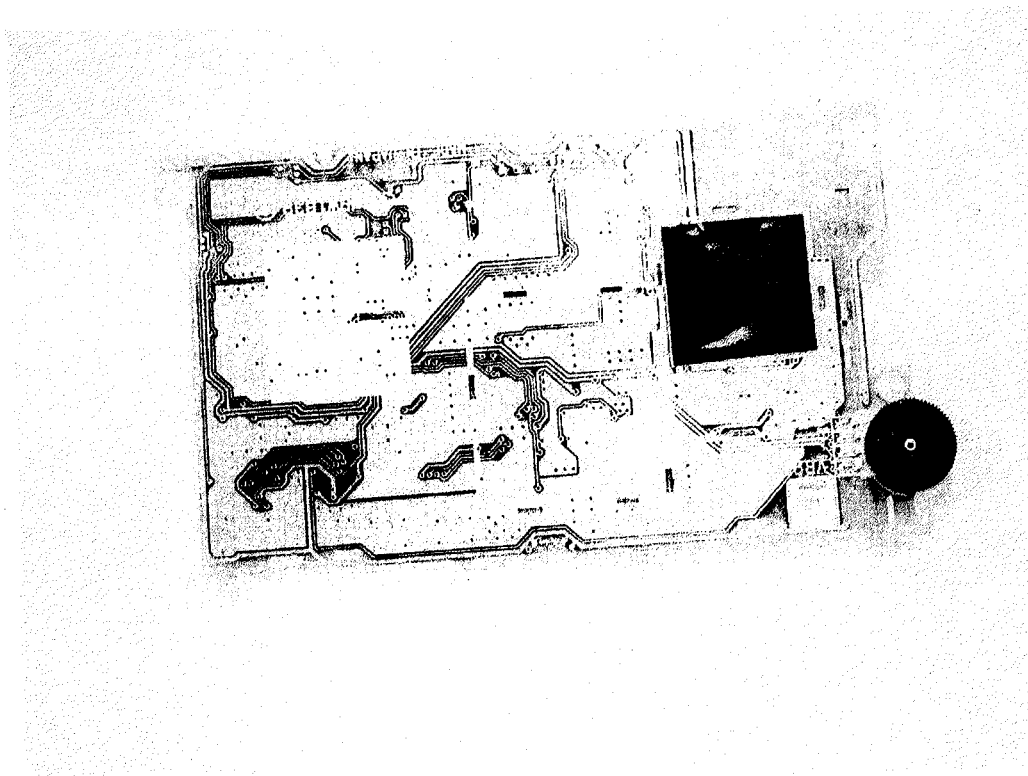
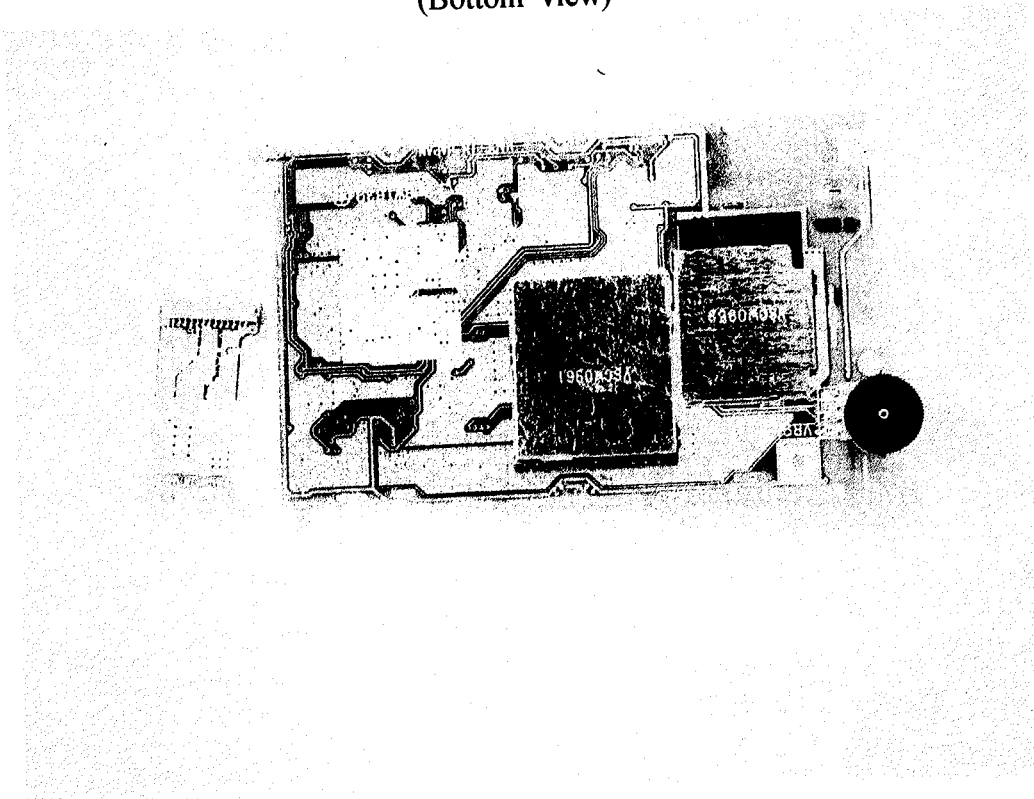
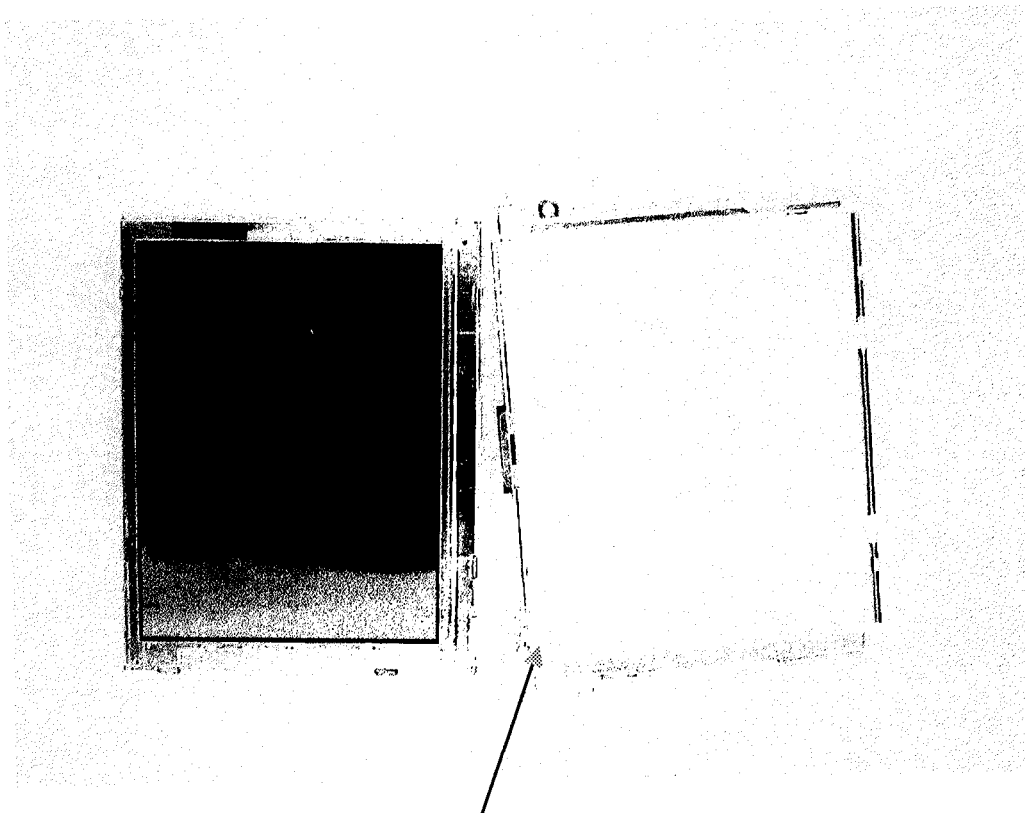
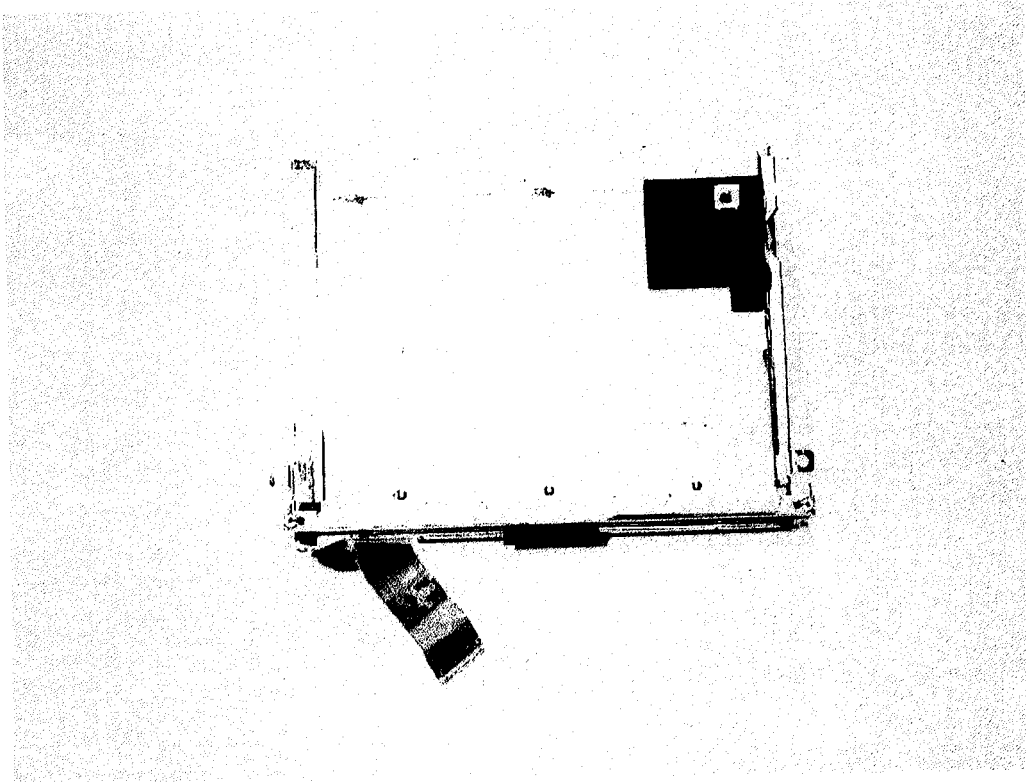


EXHIBIT # : 4-3
FCC ID : ACJ927126L
OUR REF. : MKES99-F017
MODEL NO. : PV-L650D

LCD



RF Lighting device
(Fluorescent lamp)

Block Diagram

EXHIBIT # : 5
 FCC ID : ACJ927126L
 OUR REF. : MKES99-F017
 MODEL NO. : PV-L650D

MOVIE BLOCK DIAGRAM

