

Description of RF Lighting Device

1) Type(s) of emission

Not applicable

2) Frequency range

105 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) = 4.7 V (DC)

Input Current (circuit diagram Point No. 2) = 300 mA (DC)

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

a. Switching transistor

Q8104, Q8105 : 2SD1119 x 2 or 2SD2150 x 2

b. Pulse transformer

T8101 : ETJ11K121AM

Input Voltage : 4.7 V DC

Output Voltage : 850 V AC (at no load)

c. Choke coil

L8103 : SLF6028T680M

Inductance : 68 μ H

d. Fluorescent lamp

PL8001 : A4GB9F000001 or KC82D20T86CH

Tube voltage : 330 V AC

Power consumption: 1.2 W

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 : ETJ11K121AM

Switching Transistor : Q8104, Q8105 (2SD1119 x 2 or 2SD2150 x 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.

