

RF Exposure / MPE Calculation

No. : 11056806H
Applicant : Sony Corporation
Type of Equipment : LED Bulb Speaker
Model No. : LSPX-102E26
FCC ID : AK8LS26300

Sony Corporation declares that Model: LSPX-102E26 complies with FCC radiation exposure requirement specified in the FCC Rule 2.1091 (for mobile).

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the “LSPX-102E26” as calculated from (B) Limits for General Population / Uncontrolled Exposure of TABLE 1- LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE) of §1.1310 Radiofrequency radiation exposure limits.

This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain, and considering a 1mW/cm² uncontrolled exposure limit. The Friis formula used was:

$$S = \frac{P \times G}{4 \times \pi \times r^2}$$

Where

$P =$ 3.84 mW (Maximum average output power)
 $G =$ 1.549 Numerical Antenna gain; equal to 1.9 dBi
 $r =$ 20 cm (Separation distance)

$$\text{Power Density Result } S = \mathbf{0.00118 \text{ mW/cm}^2}$$

Even taking into account the tolerance, this device can be satisfied with the limits.

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