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RF exposure Estimation for DV24CE/S-0.6/50

Introduction

DV24CE/S-0.6/50 (FCC ID: VYYDV240650) is a DC Venetian Blinds Drive operating at 433.925MHz.

1. Limit and Guidelines on Exposure to Electromagnetic Fields

According to 4.3 General SAR test exclusion guidance of KDB 447498 RF Exposure, no SAR required if power is lower than the flowing threshold:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $[\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation25
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.3 is applied to determine SAR test exclusion.

2. Calculation method

[(max. power of` channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$

Power of channel = 90.18dBuV/m=0.32mW Distance = 5 mm f = 0.433925 GHz

[0.32/5] * SQRT (0.433925) =0.042 0.042≤ 3.0 Therefore, excluded from SAR testing.

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