

RF Exposure evaluation

Product Description: Dell Cast Adapter

Model Number: BEL01

FCC ID: E2K-BEL01

IC: 1514B-BEL01

According to 447498 D01 General RF Exposure Guidance v05 and RSS-102
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:

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

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before
calculation

The result is rounded to one decimal place for comparison

Worse case is as below: [5.745 MHz 22.88 dBm(194.1 mW) output power]

$$(194.1\text{mW} / 20000\text{mm}) \cdot [\sqrt{5.745(\text{GHz})}] = 0.02326 < 3.0 \text{ for 1-g SAR}$$

Then SAR evaluation is not required