

ATTACHMENT

**** Standalone SAR test exclusion considerations ****

Tested channel	Peak Output Power	Average Output Power
Lowest	25.22	11.91
Middle	25.15	11.84
Highest	24.96	11.65

*Duty Cycle Correction Factor

- Pulse on time : 21.6ms

- Total on time : 21.6ms x 1pulses = 21.6ms

Duty Cycle Correction Factor = $20 \times \log(21.6\text{ms}/100\text{ms}) = -13.31 \text{ dB}$

- Min. transmitting frequency = 902.5 MHz

- Min. test separation distance = 6.5 mm

- Max. Average Power with tune-up tolerance = 12.41 dBm = 17.42 mW

(Measured Maximum Average Power = Max. Peak Output Power – Duty Cycle Correction Factor

= 11.91 dBm $\pm$ 0.5dB)

Step 1)

SAR Test exclusion thresholds for 100MHz to 6GHz at test separation distance $\leq 50 \text{ mm}$ = **Used**

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

$= [17.42 / 6.5] * [\sqrt{0.9025}] = 2.5457 \leq 3, \text{ for } 1\text{g SAR}$

Thus, SAR for this device is not required.

Step 2)

SAR Test exclusion thresholds for 100MHz to 1500MHz at test separation distance $> 50 \text{ mm}$ = **N/A**

$[\text{Threshold at } 50\text{mm in step 1}) + (\text{test separation distance} - 50 \text{ mm}) * (\sqrt{f(\text{MHz})}/150) \text{ mW}$

Step 3)

SAR Test exclusion thresholds for 1500MHz to 6GHz at test separation distance $> 50 \text{ mm}$ = **N/A**

$[\text{Threshold at } 50\text{mm in step 1}) + (\text{test separation distance} - 50 \text{ mm}) * 10] \text{ mW}$

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When connecting the product, the distance is at least 6.5mm.

The iPod is the thinnest I've ever measured.