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RF exposure information

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FCC ID: **KR5TIS-07**; IC: **7812D-TIS07**

1. Introduction:

The device with FCC ID: KR5TIS-07; IC: 7812D-TIS07 is designed to be used in portable exposure conditions.

This product integrates a transmitter operated in 433.92 MHz frequency band.

2. Output power considerations:

Rated Conducted Power: +3,5dBm +/- 3dB tolerance

Maximum Antenna Gain: -23,3dBi (horizontal polarization); -21,7dBi (vertical polarization)

$P_{EIRP} \text{ (dBm)} = P_{conducted} \text{ (dBm)} + G \text{ (dBi)}$; -where G(dBi) represents the maximum antenna gain

For -23.3 dBi antenna gain, the maximum equivalent isotropically radiated power (e.i.r.p) to be:

$-19.8 \text{ dBm} + 3 \text{ dB} = -16.8 \text{ dBm}$

3. Compliance criteria:

Transmitter is decided to comply with FCC § 2.1093 requirements and IC RSS-102 Issue 5 as the output power of the device meets the conditions specified in section 4.3.1 (SAR test exclusion) considerations of the document "KDB 447498 D01 General RF Exposure Guidance v06" and in section 2.5.1 (Exemption from Routine Evaluation Limits – SAR Evaluation) of RSS-102 Issue 5.

FCC:

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

$[\sqrt{f(\text{GHz})}] \leq 3$

$[4.5] \cdot [\sqrt{0.43392}] = 0.59 \leq 3$

IC:

Max output power (mW) $\leq 54.0368 \text{ mW}$ (limit at 433.92 MHz resulting of the linear interpolation of the limits at 300 MHz and 450 MHz specified in table 1 of section 2.5.1 of RSS-102 Issue 5)

$4.5 \text{ mW} \leq 54.0368 \text{ mW}$

Sincerely

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