INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a KIN operating at 125kHz. The EUT is powered by DC 12V Car battery. For more detail information pls. refer to the user manual.

Antenna Type: Inductor antenna

Modulation: ASK

According to the KDB 447498 D04 Interim General RF Exposure Guidance v01 (D01 447498 General RF Exposure Guidance v07):

The Maximum peak radiated emission for the EUT is 74.5 dBµV/m at 3m in

The frequency 125kHz

The Maximum peak radiated emission for the EUT is -5.5 dBμV/m extrapolated to 300m

The EIRP = $(Ed)^2 / 30$

E is the field strength in V/m d is the measurement distance

in m

Where EIRP is the equivalent

isotropically radiated power in

W

 $V/m=10^{((dB\mu V/m)-120)/20)}$

So, the EIRP = ((10^ ((-5.5-120)/20)) *300) ^2/30 W = 8.46*10^(-10) W= 8.46*10^(-7) mW = -60.7 dBm

which is within the production variation.

The nominal radiated output power (e.i.r.p) specified: -60.0 dBm (Tolerance: ±2dB)

The max. nominal radiated output power (e.i.r.p) is -58.0dBm = 0.0000016mW

1-mW Test Exemption:

Since max. effective radiated power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

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