



5MHz Inductive Link


To whom it may concern:

Cochlear Implant (CI) system consists of a sound processor and an implant. The coil in the implant and the coil from the sound processor forms an inductive loop when they are closely coupled together. Power as well as data is transferred from the sound processor to the implant via the closely coupled coils over the inductive link.

Same as previous Cochlear sound processors, the power transferred from the Nucleus 8 sound processor is to power the implant only. The transferred power and data are controlled by the supply voltage to the sound processor's coil and the duty cycle of the 5MHz PWM signal over the inductive link (thereafter 5MHz inductive link).

We, Cochlear Limited, located in 1 University Avenue, Macquarie University, New South Wales, Australia, hereby declare that these fundamental aspects of the 5MHz inductive link have not changed since Nucleus 5 Sound Processor that was confirmed by FCC as an unintentional Radiator in 2009. Over the time, improvements were made to improve the efficiency of the 5MHz inductive link.

Signed on behalf of Cochlear Limited in 1 University Avenue, Macquarie University, 2109 NSW, Australia, on 12th September 2022.

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