



Electrically Coupled Loop Antenna as an implanted antenna

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Abstract:

There are many challenges involved with the implanted antenna designs including but not limited to the miniaturization of a wideband antenna and reducing the specific absorption rate, SAR, of a miniaturized antenna. Most of the proposed antennas for implanted applications are electric antennas such as planar inverted-F antenna, PIFA. By miniaturizing the size of an electric antenna the electric field intensity in the antenna near zone will increase resulting in higher SAR. This work is trying to design a miniaturized magnetic type antenna to overcome the SAR limitations for small implanted antennas.

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