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Author Wei-Fan Chen
Author's Email Address No Public.
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Abstract
In recent years, with the rapidly development of biomedical technology, the need to transmit data utilizing wireless technology is very significant. However the now of wireless technology at UHF frequency is very limited. Therefore, this thesis designs a RFID tag antenna real can be directly applied to the human body's surface.
In our design we utilizing the human body to be the substrate of the tag antenna, therefore, the standard of FCC Industrial-Scientific-Medical Band (ISM Band: 915MHz) must be obeyed. In order to certificate the use of human body to be structure's substrate, CPW-feed antenna design was utilized and the results support our proposed, we then proposed RFID tag antenna design named Dipole with Two Loops. Moreover, we try to fabricate the RFID tag antenna directly to the chip complex impedance to maximize the tag performance.
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