

عنوان مقاله:

Folded monopole antenna for passive RFID tags

محل انتشار:

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خلاصه مقاله:

A dual band monopole antenna for passive RFID tags is presented, simulated with suitable bandwidth and gain for RFID application. The monopole is optimized using HFSS to obtain dual band characteristics. This paper presents a dual-band monopole antenna suitable for passive RFID applications which operates at ۲.۴۵ GHz and ۵.۸ GHz. This antenna is designed with low cost and low profile substrate to achieve a reasonable gain. This antenna has a total area of $۳۸ \times ۲۸ \text{mm}^2$ and is mounted on an FR4 substrate with a thickness of ۱.۶mm, dielectric permittivity constant ۴.۴, and loss tangent of ۰.۰۲۵.

کلمات کلیدی:

Monopole antenna, RFID, Passive tag

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