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Tag for UWB chipless RFID: A single antenna approach (Conference Paper)

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Abstract

Even though the **UWB** passive **RFID** is getting so much attention for the researchers with the goal of replacing the conventional barcode system, the **tag** dimension still remains as a big issue which makes the **tag** price comparatively higher than the barcode. Many proposals have been made for last one decade to overcome this problem. In this paper an **approach** has been made to combine two different methods with the aim to reduce the **tag** dimensions. Both, the new **tag** and the existing **tag** are simulated in the CST MWS. It has been observed that with the new design, a reduction of 15.5% and 6% are found in terms of the width and length respectively and that leads to a reduction in occupied area around 20%. © 2015 IEEE.

Author keywords

barcode; CST MWS; **RFID**; **UWB**

Indexed keywords

Engineering controlled terms: Antennas; Bar codes; Mobile antennas; Nanoelectronics; Radio frequency identification (**RFID**)

Barcode systems; **Chipless RFID**; CST MWS; Passive **RFID**; **Single antenna**

Engineering main heading: Ultra-wideband (**UWB**)

References (17)

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