

## **Loss Reduction for a Tunable Antenna at 700 MHz**

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**Abstract:**

To cover the 23 bands that the Long Term Evolution frequency spectrum requires for 4th Generation communications, tunable antennas are investigated. This paper focuses on the losses in the 700 MHz band. The studied antenna is a Planar Inverted F Antenna tuned with a capacitor. The results show that optimization can be done to reduce the losses in the low band for a given resonance frequency.