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This article presents a 5G mm-wave rectangular microstrip patch antenna that operates at 28 GHz and examines the impact of gain variation as the number of antenna elements increases. The antenna has a 6×6×1.6 mm³ footprint and operates in the 28 GHz frequency band (26.78-29.7 GHz) with an impedance bandwidth of 3 GHz (≤ -10 dB). The patch is 4.6×1.9 mm² in length and width. Throughout the experime... [Show More](#)

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This article presents a 5G mm-wave rectangular microstrip patch antenna that operates at 28 GHz and examines the impact of gain variation as the number of antenna elements increases. The antenna has a 6×6×1.6 mm³ footprint and operates in the 28 GHz frequency band (26.78-29.7 GHz) with an impedance bandwidth of 3 GHz (≤ -10 dB). The patch is 4.6×1.9 mm² in length and width. Throughout the experiment, a typical FR-4 material with a substrate thickness of 1.6 mm and a dielectric constant of 4.4 is taken into consideration. The multiple array antenna elements are used to examine the gain increase technique. Experiments with a 2×2, 4×4, and 8×8 antenna array have shown that the gain of the antenna is significantly increased by increasing the number of radiators. The single antenna element has a gain of 7.58 dB. The antenna's gain rises to 13, 18, and 25 dB in various array configurations as the number of array elements increases.

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I. Introduction

Mobile communication and networks have experienced rapid and diverse innovation in radio engineering. In many countries throughout the world, the fifth-generation mobile network is transforming the current condition of 5G and mm-waves in homes and industries for mobile technology. Although 5G spectrum allocation is not yet complete, it is making progress. The following section presents the 5G (5th Generation Partnership Project) standardization and its trends. The sub-6 GHz frequency range is known as the FR-1 band, whereas the mm-wave frequency band is known as the FR-2 band. These two frequency bands fall under the new radio (NR) spectrum allocation.

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