Abstracts

A 156 Mbps compact FSK modulator module for 38 GHz wireless LANs

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The results on the development of a 156 Mbps modulator module for 38 GHz wireless LANs are presented. The modulator module employing a dielectric resonator and MMICs has a compact structure. The frequency stability is less than 5.7 ppm/degree and suitable to a direct modulation of FSK. The spectrum of 38 GHz RF signals shows a wide frequency deviation of 75 MHz for 156 Mbps modulation. The 2/sup 11/-1 random data of 156 Mbps demodulated in a testing system exhibits a clear eye pattern. Error free operation in the data transmission process between the modulation and the demodulation is also confirmed.

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