

Abstracts

Monolithic Millimeter-Wave Beam Control Array

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A high performance V-band beam control array has been designed, developed and demonstrated. A transmission switch with 24 dB ON/OFF ratio for a single grid and 42 dB ON/OFF ratio (4 dB minimum loss) at ~62 GHz for a grid pair has been experimentally demonstrated. A 130-degree reflection phase shift with ~2.7 dB loss at 60 GHz for a single grid has been successfully obtained.

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