



Figure 6 Measured spectrums of the four circular transmittances of the dual-band circular-polarization filter for $\theta \in [0^\circ, 70^\circ]$. [Color figure can be viewed in the online issue, which is available at wileyonlinelibrary.com.]

WIDEBAND COLUMNAR SLOT ANTENNA

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ABSTRACT: *A wideband columnar antenna featuring a radiating slot cut around the outside circumference of a rectangular waveguide is presented. The antenna operates effectively in the frequency band of 1.51–*

4.75 GHz. The antenna also exhibits a reasonably good omnidirectional pattern in the horizontal plane, with predominantly vertical polarization. The antenna is suitable for use with access points in wireless networks.

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