

Abstracts

A dual CP slot antenna using a modified Wilkinson power divider configuration

Wen-Jen Tseng and Shyh-Jong Chung. "A dual CP slot antenna using a modified Wilkinson power divider configuration." 1998 Microwave and Guided Wave Letters 8.5 (May 1998 [MGWL]): 205-207.

A dual circularly polarized (CP) slot antenna based on a proposed equal-split Wilkinson power divider is presented. An offset-fed slot antenna, which was analyzed using the method of moments together with a mixed potential integral equation, was used to replace the lumped resistor in the divider. A dual CP slot antenna operating at S-band was designed and demonstrated experimentally. The antenna possessed a return loss bandwidth of 39.3%, an isolation bandwidth of 10% for VSWR < 2 , and 3-dB axial ratio bandwidth of 28%.

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