Abstracts

Power splitting transition for circularly polarized feed networks

U. Rosenberg and M. Schneider. "Power splitting transition for circularly polarized feed networks." 2000 Microwave and Guided Wave Letters 10.8 (Aug. 2000 [MGWL]): 307-309.

A new power splitting transition is introduced that is based on a step transformer approach for interfacing two square waveguides with a mutual alignment of the cross sections of 45/spl deg/. It is shown to provide high-performance matching properties while maintaining easy and low-cost fabrication. A well-suited mode matching CAD has been used for study and hardware design. Verification is provided by experimental results of transitions realized for the 27 GHz band.

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