

Abstracts

A Quasi-Optical Isolator

S. Hollung, W. Shiroma, M. Markovic and Z.B. Popovic. "A Quasi-Optical Isolator." 1996 Microwave and Guided Wave Letters 6.5 (May 1996 [MGWL]): 205-206.

A nonferrite X-band quasi-optical isolator is presented. The isolator consists of six cascaded printed gratings loaded with lumped elements and exhibits less than 2-dB insertion loss. The isolator is designed for protection and stabilization of quasi-optical amplifiers. A linearly polarized output wave from a quasi-optical amplifier becomes circularly polarized in the isolator, which in this case serves as a linear-to-circular polarization converter as well. Isolation of 9 and 19 dB was measured for the co- and cross-polarized waves, respectively.

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