

Abstracts

A design of novel grooved circular waveguide polarizers (2000 Vol. III [MWSYM])

N. Yoneda, M. Miyazaki, H. Matsumura and M. Yamato. "A design of novel grooved circular waveguide polarizers (2000 Vol. III [MWSYM])." 2000 MTT-S International Microwave Symposium Digest 00.3 (2000 Vol. III [MWSYM]): 1449-1452.

This paper presents a novel type of polarizer that is composed of grooved circular waveguides. The presented polarizer is suitable for realizing high performance and low fabrication cost in Ka-band and above because of simple structure. An accurate design of the polarizer is performed using mode-matching techniques. A Ka-band polarizer fabricated with the aid of the design technique has realized excellent performances.

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