

Abstracts

MMW monolithic Y-junction circulator on single-crystal Sc-doped Ba-hexaferrite

Ping Shi, Hoton How, Xu Zuo, S.A. Oliver, N.E. McGruer and C. Vittoria. "MMW monolithic Y-junction circulator on single-crystal Sc-doped Ba-hexaferrite." 2000 MTT-S International Microwave Symposium Digest 00.2 (2000 Vol. II [MWSYM]): 909-912.

A monolithic circulator junction has been fabricated on a single-crystal Sc-doped Ba-hexaferrite film transferred onto a silicon substrate. Operation of the circulator has been measured at Ka-band for both above and below ferromagnetic resonance (FMR). The circulator junction is operational even when the ferrite substrate is partially magnetized.

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