Abstracts

Design and Performance of an Integrated Three Channel Tracking YIG Preselector

R.A. Sparks, R. DiBiase and R.A. Craig. "Design and Performance of an Integrated Three Channel Tracking YIG Preselector." 1976 MTT-S International Microwave Symposium Digest of Technical Papers 76.1 (1976 [MWSYM]): 275-278.

A description is presented of a six section electronically tunable YIG filter that is partitioned into three isolated channels of two sections each, all contained within the same r-f structure and a common magnetic yoke. The design specifications are summarized for this three channel preselector and the performance results given for a 10% tuning range at X-band. The key features of ±0.5 dB amplitude tracking and ±10 degrees phase tracking between channels are maintained over the frequency band and a temperature range of -37°C to +71°C.

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