

Abstracts

Premature Decline Limiting in X-Band YIG Filters

R.A. Sparks and R. DiBiase. "Premature Decline Limiting in X-Band YIG Filters." 1975 MTT-S International Microwave Symposium Digest of Technical Papers 75.1 (1975 [MWSYM]): 243-246.

More than ten years have elapsed since the basic experiments on high power effects in ferrites were completed. During the interim period the electronically tunable YIG filter has been developed and its performance characteristics refined for utilization in many diverse system and instrumentation applications. The data presented in this paper are believed to be the first reported measurements of the premature decline limiting characteristics of X-band YIG filters up to input power levels of 2 KW peak. The minimal spike and flat leakage transmission levels are shown to offer significant system receiver front end protection in a typical contemporary electromagnetic environment.

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