Abstracts

A High Performance Hexagonal Ferrite Tunable Bandpass Filter for the 40-60 GHz Region

D. Nicholson. "A High Performance Hexagonal Ferrite Tunable Bandpass Filter for the 40-60 GHz Region." 1985 MTT-S International Microwave Symposium Digest 85.1 (1985 [MWSYM]): 229-232.

The first ferrite tuned bandpass filter, tunable with hexagonal ferrite spheres over the whole of U band (40-60 GHz) is described. This filter has an insertion loss of 4.5 ± .5 dB, typical bandwidth of 325 MHz, and a maximum tuning current of 350 mA (at 24 volts) at 60 GHz, giving it better performance than any previously reported hexagonal ferrite bandpass filter.

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