

Abstracts

Miniaturized Band Pass Filters Using Half Wave Dielectric Resonators with Improved Spurious Response

K. Wakino, T. Nishikawa, H. Mstsumoto and Y. Ishikawa. "Miniaturized Band Pass Filters Using Half Wave Dielectric Resonators with Improved Spurious Response." 1978 MTT-S International Microwave Symposium Digest 78.1 (1978 [MWSYM]): 230-232.

The capacitive coupled transmission line band pass filters were miniaturized about from 1/4 to 1/6 of size of the conventional filters without increasing insertion loss by using ceramics which has high dielectric constant and excellent temperature stability (within ± 2 PPM/ $^{\circ}$ C). The spurious response of the second and the third harmonics were clearly shifted from multiples of the dominant mode by using "composite TEM cavity resonator." The new band pass filters are applied to L or S band of frequency.

[Return to main document.](#)