Abstracts

High Dielectric Constant Strip Line Band Pass Filters

F.J. Winter, J.J. Taub and M. Marcelli. "High Dielectric Constant Strip Line Band Pass Filters." 1991 Transactions on Microwave Theory and Techniques 39.12 (Dec. 1991 [T-MTT] (1991 Symposium Issue)): 2182-2187.

High dielectric constant (K= 38) strip line was employed to realize selective band-pass filters. Seven-pole gap coupled filters centered at 6.04 GHz and 8.28 GHz were designed for 140 MHz 3-dB bandwidths. The data shows excellent agreement without the need for tuners. Miniaturization of high performance filters has been demonstrated. This technique is applicable to MMIC based microwave systems.

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