Abstracts

Microwave properties of coplanar transmission lines and filters on diamond from 1-120 GHz

F. Steinhagen, W.H. Haydl, T. Krems, W. Marsetz, R. Locher, C. Wild, P. Koidl, A. HuIsmann, T.v. Kerssenbrock and P. Heide. *"Microwave properties of coplanar transmission lines and filters on diamond from 1-120 GHz." 1998 MTT-S International Microwave Symposium Digest 98.2 (1998 Vol. II [MWSYM]): 1065-1068.*

The properties of coplanar transmission lines (CPWs) and -filters on polycrystalline diamond substrates are investigated over the frequency range from 1-120 GHz. Experimental results obtained for different geometries are in good agreement with theoretical predictions. Coplanar transmission line technology was applied to flip-chip diamond substrates for power amplifier MMICs.

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