Abstracts

60 GHz coplanar waveguide couplers and slotline transition on polished beryllium oxide

B. Lakshminarayanan, T. Weller and M. Oldenburg. "60 GHz coplanar waveguide couplers and slotline transition on polished beryllium oxide." 2001 MTT-S International Microwave Symposium Digest 01.2 (2001 Vol. II [MWSYM]): 1305-1308 vol.2.

This paper presents results for mm-wave coplanar waveguide couplers and a low loss slotline transition that are printed on polished beryllium oxide (BeO). BeO offers excellent microwave properties including a low loss tangent (0.0003) and high thermal conductivity. Included is the design of an optimized quadrature coupler with insertion loss around /spl sim/3.7 dB at 60 GHz.

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