Abstracts

Suppression of resonant leakage effects in coplanar MMIC packages using a silicon sub-mount layer

Ho-Sung Yoon, Sung-Jin Kim and Hai-Young Lee. "Suppression of resonant leakage effects in coplanar MMIC packages using a silicon sub-mount layer." 2000 MTT-S International Microwave Symposium Digest 00.3 (2000 Vol. III [MWSYM]): 1337-1340.

In this paper, we examined the resonant leakage effects of coplanar MMIC (Microwave and millimeter-wave Monolithic Integrated Circuit) substrates and experimented with a resonance suppression method using a silicon sub-mount layer in a wide frequency range from 0.5 to 40 GHz. The resonant behaviors of S-parameters due to the leakage resonance are greatly improved by absorbing the leakage using the lossy Si layer.

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