

Abstracts

Insertion loss analysis of small isolator for portable phones

S. Takeda. "Insertion loss analysis of small isolator for portable phones." 1998 MTT-S International Microwave Symposium Digest 98.2 (1998 Vol. II [MWSYM]): 621-624.

The insertion loss of lumped element isolator for portable phones was analyzed using the developed circuit simulator, which includes three loss factors: linewidth Δ/H of garnets, resistance R of central conductors and dielectric loss, $\tan \delta$ of capacitors. By comparison between the experimental results and calculations, the contribution ratios of Δ/H and R towards insertion loss, in 7 mm square isolators at 941.5 MHz, were each determined to be almost 50%, and that of $\tan \delta$ to be negligibly small.

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