

Abstracts

A Phase Compensated, Motion Insensitive Coaxial Connector

J.W. Gipprich. "A Phase Compensated, Motion Insensitive Coaxial Connector." 1996 MTT-S International Microwave Symposium Digest 96.2 (1996 Vol. II [MWSYM]): 1201-1204.

A new and unique connector design is presented that employs a novel circuit element to compensate for phase changes that occur with connector movement. The connector design is capable of providing better than 40 dB of improvement over the conventional connector in the modulation sideband levels caused by relative motion such as that seen under mechanical vibrations. This improvement may be achieved with practical designs over moderately large bandwidths up to 20% or more at microwave frequencies.

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