Comments

Comments on "Waveguide-to-Coupled Fin-Line Transition in a Ka Band"

D. B. Sillars

The authors of the above letter[1] may be interested in work that was previously carried out to excite both odd and even modes in coupled-slot fin-line circuits [1]. A similar transition from microstrip into the even mode coupled-slot fin-line to that proposed in the above letter was developed for Ka band, particularly over 28 to 40 GHz, with levels of performance achieved similar to that reported in the above letter. This transition was primarily developed as part of an investigation into the nonreciprocal effects of loading coupled-slot fin-line circuits with longitudinally magnetized ferrite slabs [2], [3].

References

[1] D. B. Sillars, "Odd- and even-mode coupled-slot fin-line circuits," *Proc. Inst. Elec. Eng.*, vol. 134, pt. H, no. 3, pp. 229–233, June 1987.
[2] L. E. Davis and D. B. Sillars, "Millimetric nonreciprocal coupled-slot finline components," *IEEE Trans Microwave Theory Tech.*, vol. MTT-34, no. 7, pp. 804–808, July 1986.
[3] D. B. Sillars, "Non-reciprocal coupled-slot devices in fin-line structures for millimetric wavelengths," CNAA Ph.D. thesis, Paisley College of Technology, Scotland, 1985.

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The author is with Phase Devices Ltd., Bedfordshire LU5 4TS, U.K.
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[1] J. de Mingo, A. Moliner, and A. Comerón, *IEEE Microwave Guided Wave Lett.*, vol. 6, pp. 363–365, Oct. 1996.

Authors' Reply

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The authors wish to thank D. B. Sillars for his kind remark and willingly recognize that the idea contained in their letter, along with experimental results, were previously published by Dr. Sillars in [1].

Although it is virtually impossible to be aware of every publication in a given technical field, they regret having overlooked this important one.

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