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EFFECT OF HF LOSSES IN A REAL CAPACITOR ON A COMMON-MODE NOISE DECREASING FOR TRANSISTOR CONVERTERS WITH ACCUMULATING GHOK

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Abstract

In this paper, a further analysis of a non-traditional method of common-mode (CM) noise decreasing for transistor converters with accumulating choke is described. It is obtained an expression for the capacitance of a real capacitor having high frequency losses in

compensating circuit which provides maximal decreasing of CM noise. The correctness of the obtained expression was checked and confirmed with the aid of PSPICE. The dependence of effective CM noise decreasing on mentioned above losses of the real capacitor also was showed in the paper. References 3, figures 3.

Key words: power factor correction converter, common-mode noise.

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