

COMPACT BALUN TRANSFORMERS

ABSTRACT

Balun transformers are described wherein multiple transformer loops are implemented in a stacked design with the primary and secondary loops overlying one another. By aligning the loops in a vertical direction, instead of offsetting the loops, the area of the device is reduced. Multiple transformer loops are nested on each level, and the transformer loops on a given level are connected together using a crossover located on a different level.

(Fig. 4)