

SMT Quadrature Hybrid Supports High-Volume Assembly Methods

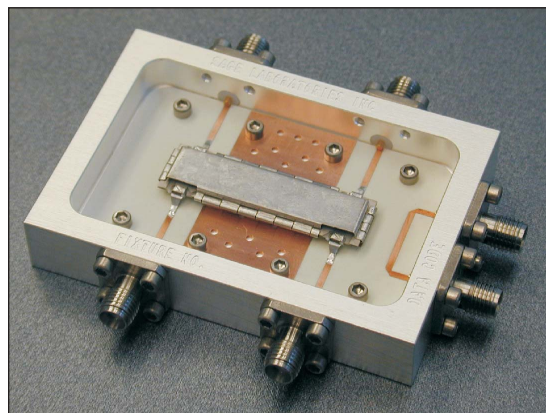
This SMT combiner/divider helps designers create high-efficiency power amplifiers for 1700 to 2500 MHz wireless systems

Filtronic Sage Labs has introduced the SSH-01 quadrature divider/combiner, featuring low loss and high power handling. The device is manufactured

using a patent-pending combination of “suspended stripline” technology and automated volume manufacturing. The SSH-01 is compatible with modern pick-and-place equipment and reflow solder techniques

The units are designed for high-performance UMTS and 3G wireless equipment, with accurate amplitude and phase performance, plus low passive IMD. Specifications include:

- 1700 to 2500 MHz operation
- 3 dB coupling
- ± 0.15 dB maximum unbalance
- 23 dB minimum return loss



Demonstration units are manufactured using the same pick-and-place and reflow techniques that customers will use.



Sage Laboratories' new SMT-001 combines new suspended stripline design with high-volume manufacturing methods.

- 0.1 dB loss (in addition to coupling loss)
- ± 3 degrees maximum phase unbalance
- 200 watt power handling
- >100 dBm passive intermod products
- -40 to $+125^\circ\text{C}$ operating temperature

The product data sheet includes complete mechanical data, circuit board mounting pattern and solder paste pattern for optimal performance in the customer's wireless power amplifier. Packaging may be either gravity tubes or standard molded trays.

Demonstration units are available, manufactured using the specified automated techniques. Environmental qualification screening test results performed on a sample of the demonstrators are available for customer review.

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