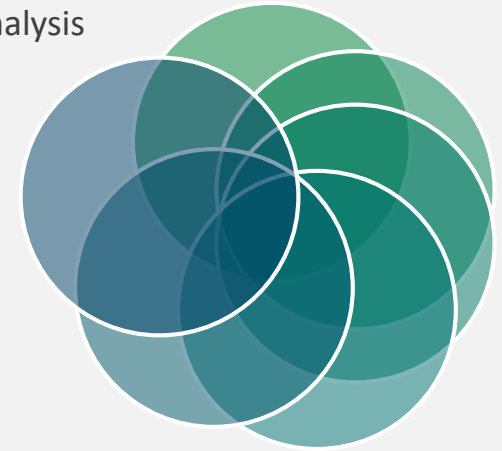
Electro-Photonics LLC

ELECTRO - PHOTONICS
WAVES INTO THE FUTURE

Overview

Extensive Design Experience in:

- Passive components
- RF/Microwave circuits
- 3D EM analysis



SMT Passive Components:

- 90° Hybrid Couplers
- Directional Couplers
- Power Dividers

Testing and Fixturing:

- Custom RF fixtures to 20GHz
- Evaluation boards for passive components

Passive Components:

- Spiral Inductors
- Single Layer Capacitors
- Mounting Tabs (Shorts)

Build-to-Print:

- Thin film filters
- Transmission Lines on Alumina and Quartz
- Thin film circuits on various ceramics

SMT Passive Components

Hybrid Couplers:

- Tight coupling, low insertion loss, and high power. Custom designed couplers from 30 MHz to 18 GHz and power levels up to 500 W.

•Directional Couplers:

- Low insertion loss, high power capability, high directivity, flat coupling in a small package.

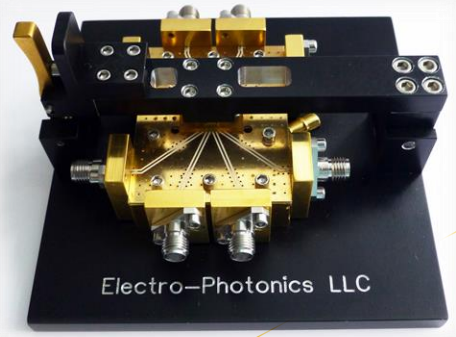
SMA Hybrid Couplers:

- High performance connectorized couplers in a very compact package.

Testing and Fixturing

Custom Test Fixtures:

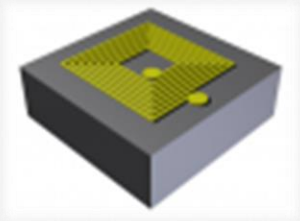
RF & Microwave test fixture for exceptionally accurate and repeatable measurements.



Evaluation Boards:

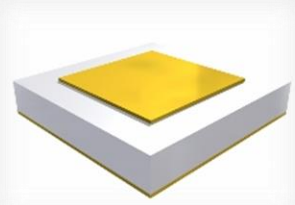
RF & Microwave evaluation boards for testing various passive components to 18GHz.

Passive Components



- Spiral Inductors:

  These inductors are built on quartz in order to provide low loss and high Q in a tiny 0303 package. These inductors exhibit excellent electrical performance up to 10GHz and provide inductance ranging from 0.7nH to 22.5nH.



- Single Layer Capacitors and Mounting Tabs:

  Single layer capacitors are available with a dielectric material with dielectric constant (DK) from 3.8 to 25,000. The standard metallization is gold over nickel. Mounting tabs are made of metalized alumina in various sizes.

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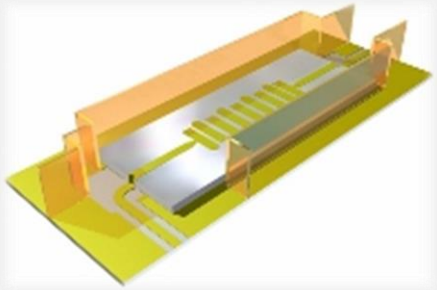
Build-to-Print Services



- **Filters:**
  Thin film filters on: Alumina (Al2O3), Beryllium Oxide (BeO), and Aluminum Nitride (AlN).

- **Transmission Lines:**
  50 Ohm t-lines on Alumina or Quartz

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CONTACT

ADDRESS

- Electro-Photonics LLC
- 2740 SW Martin Downs Blvd. #122
- Palm City, FL 34990

PHONE

- (772) 485-0927

WEBSITE

- www.electro-photonics.com

ENGINEERING

- eng@electro-photonics.com

SALES

- sales@electro-photonics.com