

# MICROWAVE INTEGRATED CIRCUIT TRAINER

Vi Microsystems Pvt. Ltd.,

This trainer is used to study micro strip components, its characteristics and get hands on experience. It is very useful for the students to get the knowledge about micro strip components and instrument. For that we offer four solutions.

## 1. 1GHz Microwave Trainer [VMIC - 01]

### i. Source

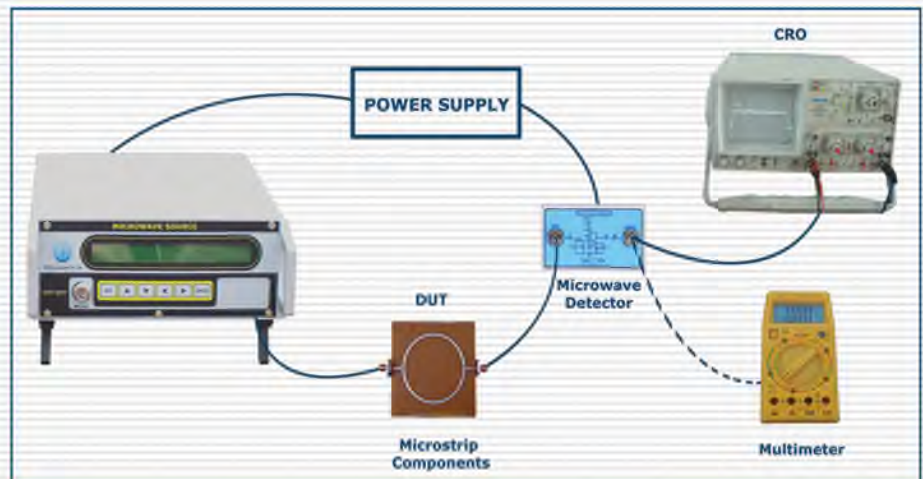
- \* Frequency Range : 0.05-1GHz
- \* Resolution : 100KHz
- \* Automatic level control (ALC) incorporated. So that, RF level output will be constant.
- \* Output Impedance : 50 ohm

### ii. 1GHz Microstrip Components

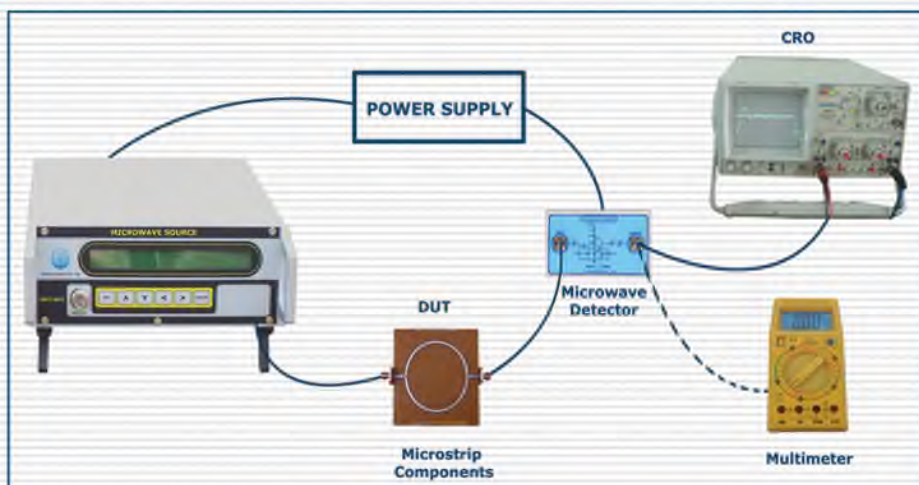
- \* Ring Resonator
- \* 3dB Power divider
- \* Directional coupler

### iii. Microwave Detector

- \* Frequency Range : 0.05-1GHz



## 2. 1 - 3GHz Microwave Trainer [VMIC - 02]



### i. Source

- \* Frequency Range : 1- 3 GHz
- \* Resolution : 100KHz
- \* Automatic level control (ALC) incorporated. So that, RF level output will be constant.
- \* Output Impedance : 50 ohm

### ii. 2.5GHz Microstrip Components

- \* Ring Resonator
- \* 3dB Power divider
- \* Directional coupler

### iii. Microwave Detector

- \* Frequency Range : 1- 3 GHz

## Other Optional Modules [VMIC - 03] & [VMIC - 04]



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# MICROWAVE INTEGRATED CIRCUIT TRAINER

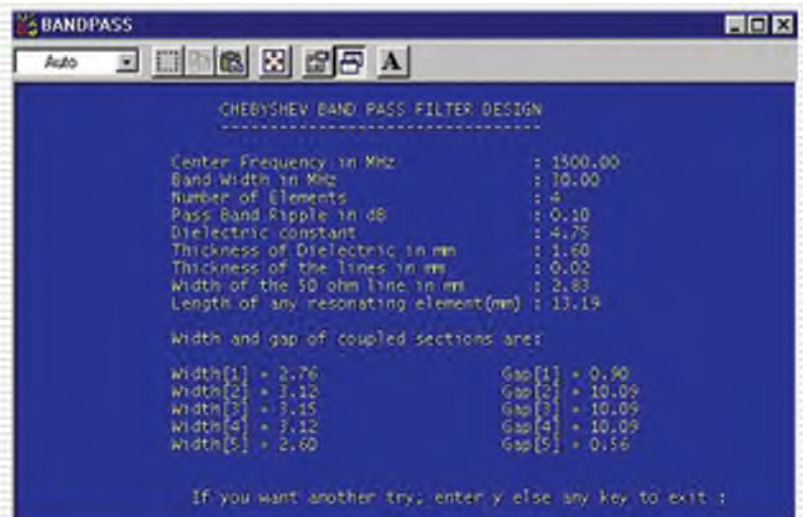
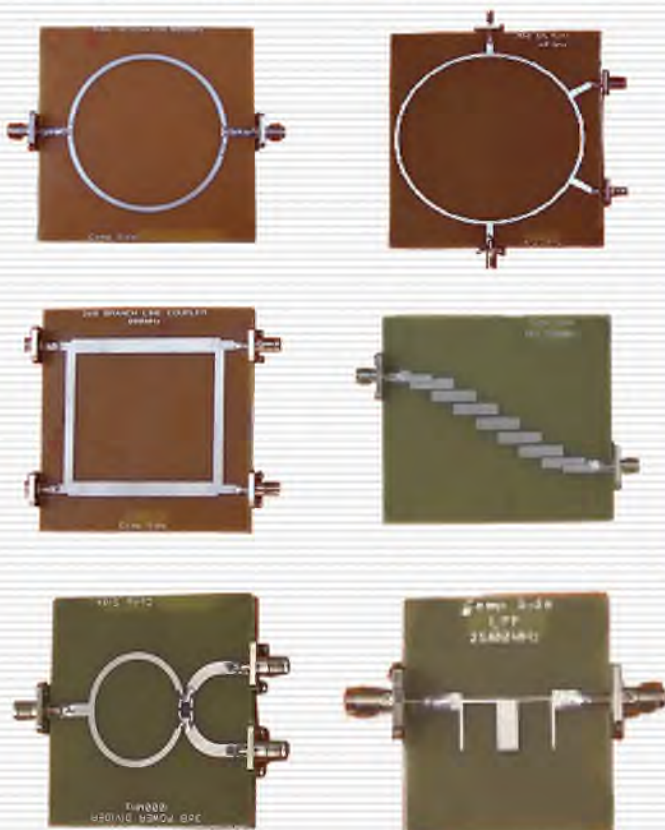
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## SOFTWARE: Microwave Integrated Circuit (MIC) Design Software

- \* By feeding various parameters and dielectric parameters of the PCB, this package will give all the dimensions of microstrip PCB and various filters, coupler, Dividers etc. If the PCB is made as per the dimension, the student can practically verify the design
- \* By using this you can design (Filters, Couplers, Dividers) of Microstrip components. We get the O/P of S/W is width & length resonating elements
- \* Input Parameter of Filters : F(Centre frequency), Bandwidth & Number of elements (BPF, LPF,HPF)
- \* Input Parameter of PCB : Dielectric constant Thickness of Dielectric thickness of copper clad.
- \* Output of Software : Width & length of resonating elements will be provided to fabricate the PCB.

The MIC Design software will work similarly for

- Microstrip BPF, HPF, LPF
- Microstrip Branch line Coupler
- Microstrip Ring Coupler
- Microstrip Wilkinson divider
- Microstrip Antenna Design



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