

MICROWAVE TEST BENCH (KLYSTRON BASED)



SCOPE

The MI2000 series of Microwave Test Benches are precision made microwave systems, which use standard type rectangular wave- guide components to illustrate the essential elements of this field for study. These Training Benches are completely self-contained & provided with the means to allow students to carry out practical work at extremely low cost. A comprehensive manual containing extensive microwave theory and a progressive series of assignments is supplied with the Trainer.

Features:

- A selection of wave-guide components
- The power supply for microwave source
- A meter, which monitors the detector output
- Wall Chart Experiment

Experiments

- Study the characteristics of klystron Tube and its tuning range.
- To determine the frequency & wavelength in a rectangular waveguide working TE₁₀ mode
- To study unknown impedance with smith chart
- To study the square law behavior of a microwave crystal detector
- To study the variable attenuator
- To study the square law behavior of a microwave crystal detector
- To study the E plane TEE, H Plane TEE
- To study MHD Coupler

VSWR Meter	:	1
Klystron Power Supply	:	1
Cooling Fan	:	1
Detector Mount	:	1
Variable Attenuator 20dB	:	1
Frequency Meter, DR	:	1
Klystron Tube with mount	:	1
Isolator	:	1
Matched Termination	:	1
E Plane Tee	:	1
H Plane Tee	:	1
Slotted Section	:	1
Tunable Probe	:	1
Magic Tee	:	1
MHD Coupler 10 dB	:	1
MHD Coupler 3 dB	:	1
Fixed Attenuator 10dB	:	1
Fixed Short	:	1
Movable Short	:	1
Wave Guide Stand	:	4
ACCESSORIES		
BNC to BNC Cable	:	
N to BNC Cable	:	
Operating manual	:	
Mains Cord	:	



Note : Specifications can be altered without notice in our constant efforts for improvement.

MICROLINE INDIA

Email: info@microlineindia.in

www.microlineindia.in

MI- KPS151 KLYSTRON POWER SUPPLY



Klystron Power is a state of art solid state regulated Power supply for operating low power Klystron.

It incorporates number of proprietary features.

Features:

- Regulated Beam supply and Repeller supply voltages
- LED Digital meter for Beam voltage, current and Repeller voltage
- Modular construction for easy maintenance
- In addition to AM and FM modulation of beam current, provisions for external modulation have been provided

Beam Supply :

- Voltage 240-420 VDC, Variable
- Current 50mA
- Regulation 0.25% to 10% I/P Variation Ripple : < 5m Vrms (On Load)
- Repeller Supply : -18V to -270V DC, Regulation .25% to 10% I/P variation
- Filament supply : 6.3VDC (adjustable at rear panel)
- Overload Trip current : 50mA

Display : Digital display for
1. Beam Voltage
2. Beam current
3. Repeller voltage

Modulation Selector : CW / AM / FM /EXT 3 ½ Digital Panel : 2V

Meter Selector : Beam Voltage (V), Current (I), (Repeller)

Power Supply : 220V±10%,50Hz

MICROLINE INDIA

Email: info@microlineindia.in

www.microlineindia.in