

**Product Name :**  
Microwave Communication Trainer

**Product Code :**  
Lab Trainers0005



**Description :**

Microwave Communication Trainer

We are Leading Supplier of Microwave Communication Trainer in India We also bulk supply Microwave Communication Trainer for laboratory tensors.

Features : Microwave Communication Trainer

helps the students to train themselves about experiment in microwave components design and manufacturing & measurement applying microstrip line theory and microwave device design theory.

For these experiment, standard devices and others with software program are supplied

Functions :Communication using the Microwave system

Measurement in Microwave system

FSK Modulation & Demodulation in microwave band

File transfer & data transmission

Understanding of the microstrip line design theory

Understanding of the basic theory of microwave devices

Design & simulation of microwave devices

Training Contents :

Introduction to Microwave Communication Trainer

FSK Modulator

R F Amplifier

Antenna

Low Noise Amplifier

Power Divider

Band Pass Filter

Detector

FSK Demodulator

Microwave Communication experiments

General Specifications :

Frequency Band : 2.4 GHz ~ 2.5 GHz  
Modulation : FSK  
Bit Rate : 4800 ~ 14400 Bps  
Output Power : +4.5dbm  
Impedance : 50 ohms  
Substrate material : Rogers RO4003C  
PCB thickness : 0.508 mm  
Dielectric constant : 3.3  
Module Specifications :  
Base band transmitter :  
Frequency band : 2.4 ~ 2.5 GHz  
Gain : 26 dB  
Noise figure : 2.5 dB  
Input p1 dB : -25dBm  
Power divider :  
Type : 2 way, Wilkinson  
Frequency band : 2.4 ~ 2.5 GHz  
Return loss : 14 dB  
Insertion loss : 0.5 dB  
Band pass filter (2.4 GHz) :  
Type : Edge-coupled  
Center frequency : 2.4 GHz  
Return loss : 10 dB  
Insertion loss : 7.0 dB  
Band pass filter (2.5 GHz) :  
Type : Edge-coupled  
Center frequency : 2.5 GHz  
Return loss : 10 dB  
Insertion loss : 7.0 dB  
R F amplifier :  
Frequency band : 2.4 ~ 2.5 GHz  
Gain : 15 dB  
Input : -5dBm  
Antenna & Receiving :  
Type : YAGI (PCB type)  
Center frequency : 2.45 GHz  
Gain : 9 dBi  
VSWR : 1.5 : 1  
Components Device :  
FSK Modulator : 1 ea  
FSK Demodulator : 1 ea  
R F Amplifier : 2 ea  
Detector : 2 ea  
Band Pass Filter 2.4 GHz : 1 ea  
Band Pass Filter 2.5 GHz : 1 ea  
Power Divider : 1 ea  
Low Noise Amplifier : 1 ea  
YAGI antenna : 2 ea  
DC Power Adaptor (1.2V / 1.5A) : 2 ea  
DC Power Cable : 2 ea  
RS 232C Cable : 2 ea  
R F Cable : 3 ea  
Carrying Bag : 1 ea

Antenna Cable : 2 ea  
Antenna Supporter : 2 set  
SMA Adaptor : 6 ea  
50 Ohm Terminator : 1 ea  
Software program : 1 ea  
Answer sheet in CD : 1 ea  
Program CD : 1 ea

## Naugra Export

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