

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

Website: www.naugraexport.com, **Email:** sales@naugraexport.com

Address: 6148/6, Guru Nanak Marg, Ambala Cantt, Haryana, India, **Phone:** +91-0171-2643080, 2601773