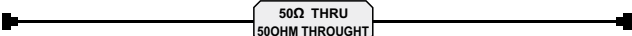
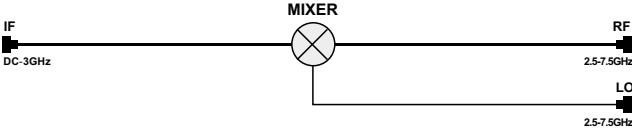
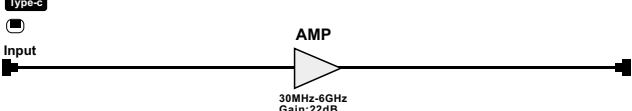
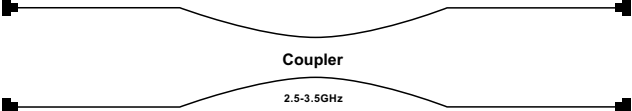
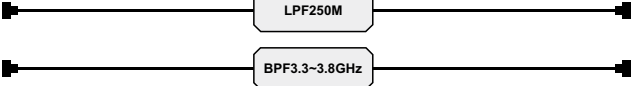
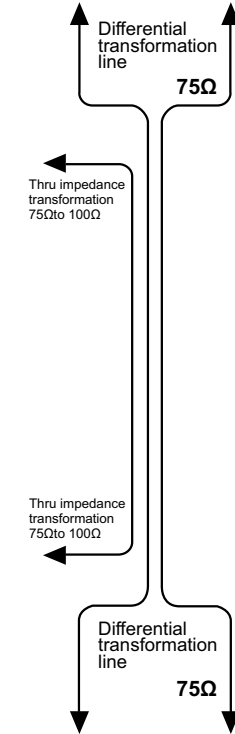
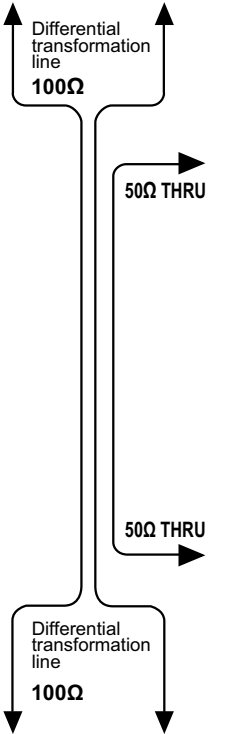


UT-TR01射频演示套件

产品简介

UT-TR01 是一款多功能射频教学与实验演示套件，专为射频电路设计、信号分析和通信系统教学而开发。该套件集成常见射频功能模块，支持单端与差分信号链路实验，并通过标准化SMA接口提供灵活的测试连接点，适用于高校实验室、工程培训及研发验证场景。

核心功能

功能	描述
	特性阻抗为50Ω直通短线
	混频器 RF射频端口：2.5GHz至7.5GHz IF中频端口：DC至3GHz LO本振端口：2.5GHz至7.5GHz
	放大器 增益：22dB@1GHz（典型值） 工作频率：30MHz至6GHz 供电方式：Type-c供电
	耦合器 工作频段：2.5GHz至3.5GHz 端口分别为：输入端和耦合端，输出端和隔离端（端口互易）。
	巴伦 工作频率：4.5MHz至3GHz（基于TC1-1-13MG2+射频变压器）
	滤波器 低通滤波器（Low-pass Filter）：截止频率250MHz； 带通滤波器（Band-pass Filter）：带通频段3.3GHz至3.8GHz
	75Ω差分微带线和75Ω转100Ω阻抗转换线
	100Ω差分微带线和50Ω长直通线

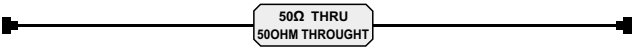
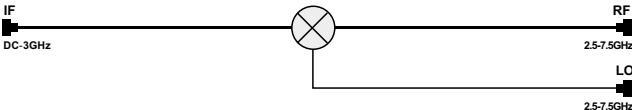
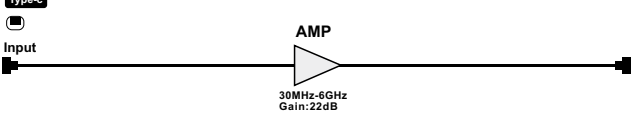
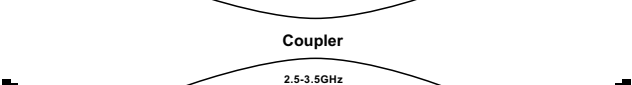
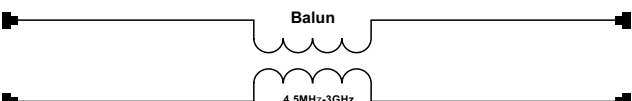
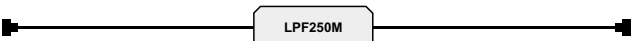
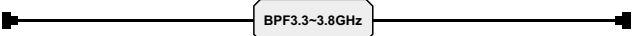
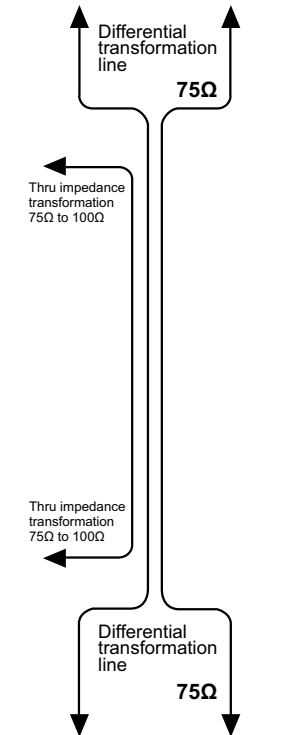
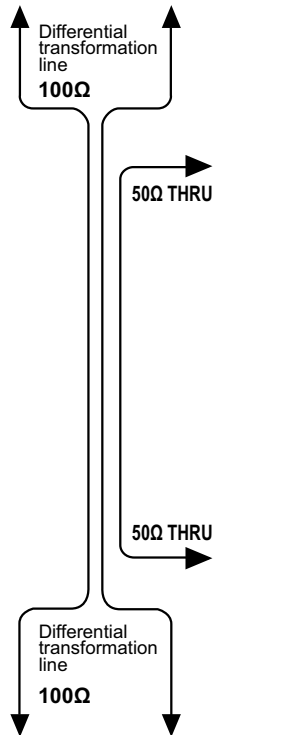
UT-TR01 RF Demonstration Kit

Product Introduction

The UT-TR01 is a multifunctional RF teaching and demonstration kit designed for education in RF circuit design, signal analysis, and communication systems. It integrates commonly used RF functional modules, supports both single-ended and differential signal experiments, and provides flexible test access through standardized SMA interfaces.

The kit is suitable for university laboratories, engineering training programs, and R&D verification, offering a practical platform for hands-on learning and system evaluation.

Key Functions

Function	Description
	50 Ω short straight-through line
	Mixer RF port: 2.5 GHz to 7.5 GHz IF port: DC to 3 GHz LO port: 2.5 GHz to 7.5 GHz
	Amplifier Gain: 22 dB@1 GHz (Typical value) Operating frequency: 30 MHz to 6 GHz Power supply mode: Type-c power supply
	Coupler Operating frequency range: 2.5 GHz to 3.5 GHz Ports: input and coupling, output and isolation (port reciprocity)
	Balun Operating frequency: 4.5 MHz to 3 GHz (based on TC1-1-13MG2+RF transformer)
	Filter Low pass filter: Cut-off frequency 250 MHz
	Band pass filter: Band pass frequency range of 3.3 GHz to 3.8 GHz
	75 Ω differential microstrip line and 75 Ω to 100 Ω impedance transformation line
	100 Ω differential microstrip line and 50 Ω long straightthrough line

彩盒 菲林做货要求

序号	项目	内容		备注
1	尺寸	展开：210*285mm 折后：105*95mm		
2	材质	60g书纸		
3	颜色	单色		
4	外观要求	完整清晰、版面整洁，无斑墨、残损、毛边、刀线错位等缺陷。		
5	装订方式			
6	表面处理			
7	其它	无		
版本		REV. 0		
DWH 设 计	向玉	MODEL 机型： UT-TR01	Part NO. 物料编号： 110401113736X	
CHK 审核		 优利德科技(中国)股份有限公司 UNI-TREND TECHNOLOGY (CHINA) CO., LTD.		
APPRO. 批准				