

Module Circuit Description

1. The RF Module RF1G9, RF IC RU1 Transceiver for DECT Standard Applications operating in European, Latin American and North American frequency ranges allocated for DECT.
2. The IC RU1 Pin20-26 for the synchronization interface. The Components RC16,21,24,27,28,63,64,RL4,5 for TX part. The components RC4,5,14,15,RL2,3,7,8 for RX part.
3. The receiver input circuit uses a balun circuitry. This balun transforms the single ended $50\ \Omega$ source from the bandfilter to the RU1 PIN7,8.
4. The transmitting output is symmetrical with an open collector output structure, more suitable for power transmission. The TX data from RU1 pin20 to the pin9,10. The symmetrical signal coming out is transformed to an asymmetrical signal using coupling capacitors. The typical output power at this pin21 is max20dBm.
5. The PIN diode is used as RF switch, the antenna will operate in alternately. when open it provides 15dB isolation and less than 1dB loss when closed. The control signal from the RF1G9.