The Basestatio n Consist s of BML (Burs t Mod e Logi c), Speec h networ k, Isolatio n interfac e, RF modul e, Linea r regulato r, Current Limiter, EEPROM , X-ta l and so on.

1 . Bust Mod e Logic

This is part to contro l all functio n of the Basestatio n, we use d the DE56300CA3DLC which is controller for DEC T and control analo g part s. This devic e include all control circuit s of the Basestation for RF module, Isolation interface, ADPC M CODE C, seties regulatorand soon. Also, the embedde d processo r to be compatible wit h Inte l 8051-core in the DE56300CA3DLC proces s the program.

2 . Speec h network

Th e function o f this connect s LINE interface and the DE56300CA3DLC.

3 . Isoation interface

The function of this connect line and speech network IC. Also , the Isolation interface include the ring detect circuit, Caller-ID(option) and s oon.

4 . EEPROM

Thi s is32K byte s of non-volatil memory.The each kind of value to set-up at Dialing memory. Ring level , operating parameter, EM C code and soon are stored i n this device.

5 Current limiter

The current Limiter i s circuit t o supply th e proper current t o charge batterie s of the handset from D C 7.5 V voltag e to b e inputted from the adapter.

RF CIRCUIT DESCRIPTION

1. RF Module The DE19RF19（B3） RF IC Transceiver for DECT Standard Applications operating in European, Latin American and North American frequency ranges allocated for DECT.

2. Both the DE19RF19 PIN17-PIN25 and DSPG's base hand can support several receivers to base hand interface.

3. The receiver input circuit uses a balun1 circuitry. This BALUN transforms the single ended 50 Ω source from the band filter to the DE19RF19 RXP&RXN differential RF input. The parallel inductor (L2.L3) is used to resonate between RXP and RXN inputs and cancel the differential imaginary parallel part of the chip impedance, thus the resultant impedance has only a 'real' component. This RX BALUN is composed of (L2.L3.C15.C5.L7.L9.C4).

4. The transmitting output is symmetrical with an open collector output structure, more suitable for power transmission. Therefore two external collector coils are connected from TXN&TXP (pin 9 and 10) to the supply rail. On this RF module, these coils are made by (L11, L12). The symmetrical signal coming out is transformed to an asymmetrical signal using coupling capacitors (C63, C64) and a BALUN (C11.L4.L5.C24.C27.). The typical output power at this point is 20dBm.

5. After the Rx/Tx PIN diode (D1), The PIN diode is used as a switch, when open it provides 15dB isolation and less than 1dB loss when closed. The control signal ***TRSW and TRSWN*** from the DE19RF19