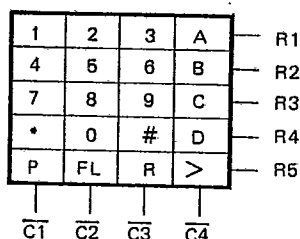


# UM91310 Series TONE/PULSE DIALER

## Features

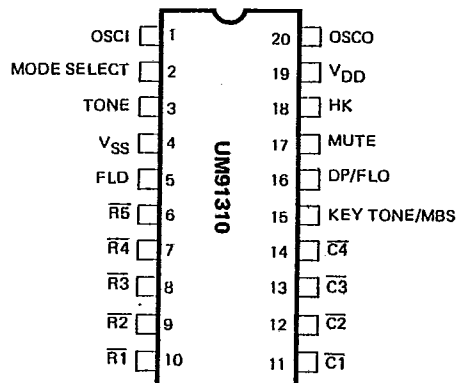
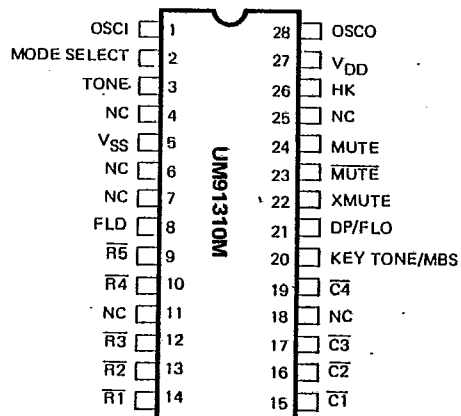
- Pulse and DTMF dialing
- Memory clear function
- Four extra function keys: pause, flash, redial, and pulse to DTMF dialing (mixed mode)
- DTMF dialing:
  - Manual dialing – minimum duration for bursts and pauses
  - Redialing – calibrated timing
- On-chip oscillator uses low-cost 3.579545 MHz crystal
- Keyboard entry fully debounced
- 23 digits for redial operation
- Special function for flash operation
- On-chip voltage reference for supply and temperature independent tone output
- On-chip filtering for low output distortion
- Uses standard 5 x 4 keyboard
- Flash (register recall) output

## Keyboard Assignments



P : Pause  
 FL : Flash  
 R : Redial  
 > : Pulse to DTMF

## Pin Configurations



Note: The function of KEY TONE/MBS is determined by bond pad selection.

## Ordering Information

Part No.	M/B Ratio	Key-In Tone	Package
UM91310	1:2	Available	20 pin DIP
UM91310A	2:3	Available	20 pin DIP
UM91310B	Pin Selectable	Not Available	20 pin DIP
UM91310M	1:2	Available	28 pin SOP
UM91310AM	2:3	Available	28 pin SOP
UM91310BM	Pin Selectable	Not Available	28 pin SOP