# HM9110B/C

## TONE/PULSE SWITCHABLE & 10 MEMORY DIALER

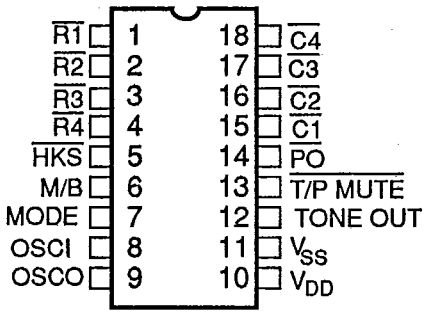
### Features

- Tone/Pulse switchable Dialer.
- One 31-digit memory for the last number redial.
- Auto pause access for PBX operation; 3.6 sec per pause. (2 sec, 3.2 sec pause time can be obtained by metal option.)
- Pulse to tone key (P→T) for toll service operation.
- Use 3.579545MHz crystal.
- Flash Key is available in PBX; Flash time is 600ms & 100ms by M/B controller.
- In pulse mode, # can be used as P→T key.
- Minimum tone duration=100ms and minimum intertone pause=106ms for rapid key-in.
- M/B PIN SELECT TO 3 TYPES:

| | M/B | Pulse rate | Flash time | M/B rate |
|---|---|---|---|---|
| HM9110B | OPEN | 20PPS | 600ms | 33:66 |
| | $V_{SS}$ | 10PPS | 600ms | 40:60 |
| | $V_{DD}$ | 10PPS | 100ms | 33:66 |
| | **M/B** | **Pulse rate** | **Flash time** | **M/B rate** |
| HM9110C | OPEN | 20PPS | 600ms | 33:66 |
| | $V_{SS}$ | 10PPS | 100ms | 40:60 |
| | $V_{DD}$ | 10PPS | 600ms | 33:66 |

### Pin Assignment

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### Keyboard Scheme

| COL1 | COL2 | COL3 | COL4 | |
|---|---|---|---|---|
| 1 | 2 | 3 | ST | ROW1 |
| 4 | 5 | 6 | MEMO | ROW2 |
| 7 | 8 | 9 | F | ROW3 |
| * | 0 | # | RD/P | ROW4 |

F: Flash MEMO: Memory Recalling
ST: Memory storing RD: Redial
RD/P: First touch after off-hook is redial function
others execute pause function
#: P→T (in pulse mode)