



# HM9202/3/4

## DTMF Receiver

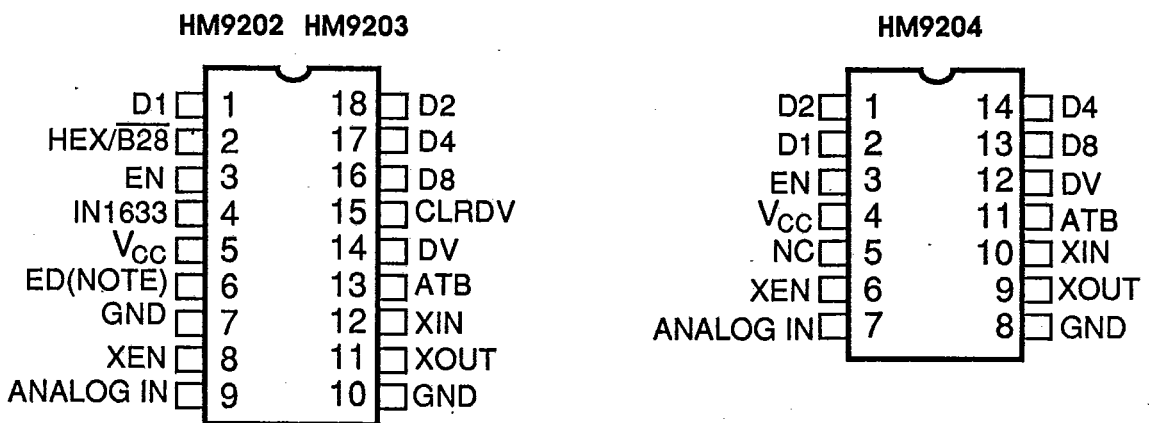
### Features

- Built-in dial tone rejection.
- Single 5-volt supply.
- Three-state outputs.
- Narrow 14 or 18 pin package.
- No external filters required.
- Minimum system overhead.
- Simple bus interface.
- Minimum board space.

### Applications

- Telephone answer machine.
- PABXs.
- Central office.
- Key systems
- Remote control
- Remote data entry

### Pin Assignment



NOTE: HM9203 ONLY, WHILE 9202 IT IS "NC"

### OUTPUT CODE TABLE

| Digit | Hexadecimal |    |    |    | Binary Coded 2 of 8 |    |    |    |
|-------|-------------|----|----|----|---------------------|----|----|----|
|       | D8          | D4 | D2 | D1 | D8                  | D4 | D2 | D1 |
| 1     | 0           | 0  | 0  | 1  | 0                   | 0  | 0  | 0  |
| 2     | 0           | 0  | 1  | 0  | 0                   | 0  | 0  | 1  |
| 3     | 0           | 0  | 1  | 1  | 0                   | 0  | 1  | 0  |
| 4     | 0           | 1  | 0  | 0  | 0                   | 1  | 0  | 0  |
| 5     | 0           | 1  | 0  | 1  | 0                   | 1  | 0  | 1  |
| 6     | 0           | 1  | 1  | 0  | 0                   | 1  | 1  | 0  |
| 7     | 0           | 1  | 1  | 1  | 1                   | 0  | 0  | 0  |
| 8     | 1           | 0  | 0  | 0  | 1                   | 0  | 0  | 1  |
| 9     | 1           | 0  | 0  | 1  | 1                   | 0  | 1  | 0  |
| 0     | 1           | 0  | 1  | 0  | 1                   | 1  | 0  | 1  |
| *     | 1           | 0  | 1  | 1  | 1                   | 1  | 0  | 0  |
| #     | 1           | 1  | 0  | 0  | 1                   | 1  | 1  | 0  |
| A     | 1           | 1  | 0  | 1  | 0                   | 0  | 1  | 1  |
| B     | 1           | 1  | 1  | 0  | 0                   | 1  | 1  | 1  |
| C     | 1           | 1  | 1  | 1  | 1                   | 0  | 1  | 1  |
| D     | 0           | 0  | 0  | 0  | 1                   | 1  | 1  | 1  |