

CMOS DTMF Receivers

Type	Features	Output 3-State Output Code	Supply Voltage	Package*
CD22202	• Detects either 12 or 16 standard DTMF signals • Central-office quality • No front-end band splitting filters required • Single, low-tolerance, 5V supply • Uses inexpensive 3.579545MHz crystal for reference • Excellent speech immunity • Synchronous or handshake interface • Three-state outputs	4-bit Hexa- decimal or binary coded 2-of-8	5V ± 10%	18-Pin DIP-E
CD22203	• Same as CD22202, but also has early detect output	4-bit Hexa- decimal or binary coded 2-of-8	5V ± 10%	18-Pin DIP-E
CD22204	• No front-end band splitting filters required • Single, low-tolerance, 5V supply • Three-state outputs for microprocessor-based systems • Detects all 16 standard DTMF digits • Uses inexpensive 3.579545MHz crystal • Excellent speech immunity • Output in 4-bit hexadecimal code	4-bit Hexa- decimal Only	5V ± 10%	14-Pin DIP-E

* See interpretation guide and packaging section

CMOS DTMF Transmitters

Type	Features	Output	Supply Voltage	Package*
CD22859	• Mute drivers on chip • Device power can either be regulated dc or telephone loop current • Use of an inexpensive 3.579545MHz TV crystal provides high accuracy and stability for all frequencies	350mV into 82 Ω	2.5V to 10V	16-Pin DIP D, E

* See interpretation guide and packaging section

Continuously Variable Slope Delta (CVSD)

Type **	Features All Digital, Useable From 9Kbits/s to Above 64Kbits/s. Requires Power External Parts	Package No. of Pins*
HC55536	Decode Only. Convert serial NRZ digital signal to an analog (voice) signal—conversion delta demodulation	14 DIC
HC55564	Duplex Modulator/Demodulator. Convert voice signals into serial NRZ digital data and to reconvert that data into voice—conversion delta modulation	14 DIC

** See page 121 for more specifications