



2913 AND 2914 COMBINED SINGLE-CHIP PCM CODEC AND FILTER

- 2913 Synchronous Clocks Only, 300 Mill Package
- 2914 Asynchronous Clocks, 8th Bit Signaling, Loop Back Test Capability
- AT&T D3/D4 and CCITT Compatible for Synchronous Operation
- Pin Selectable μ -Law or A-Law Operation
- Two Timing Modes:
 - Fixed Data Rate Mode
1.536, 1.544, or 2.048 MHz
 - Variable Data Rate Mode
64 KHz 2.048 MHz
- Exceptional Analog Performance
- 28-Pin Plastic Leaded Chip Carrier (PLCC) for Higher Integration
- Low Power HMOS-E Technology:
 - 5 mW Typical Power Down
 - 140 mW Typical Operating
- Fully Differential Architecture Enhances Noise Immunity
- On-Chip Auto Zero, Sample and Hold, and Precision Voltage References
- Direct Interface with Transformer or Electronic Hybrids

The Intel 2913 and 2914 are fully integrated PCM codecs with transmit/receive filters fabricated in a highly reliable and proven N-channel HMOS silicon gate technology (HMOS-E). These devices provide the functions that were formerly provided by two complex chips (2910A or 2911A and 2912A). Besides the higher level of integration, the performance of the 2913 and 2914 is superior to that of the separate devices.

The primary applications for the 2913 and 2914 are in telephone systems:

- Switching—Digital PBX's and Central Office Switching Systems
- Transmission—D3/D4 Type Channel Banks and Subscriber Carrier Systems
- Subscriber Instruments—Digital Handsets and Office Workstations

The wide dynamic range of the 2913 and 2914 (78 dB) and the minimal conversion time make them ideal products for other applications such as:

- Voice Store and Forward
- Digital Echo Cancellers
- Secure Communications Systems
- Satellite Earth Stations

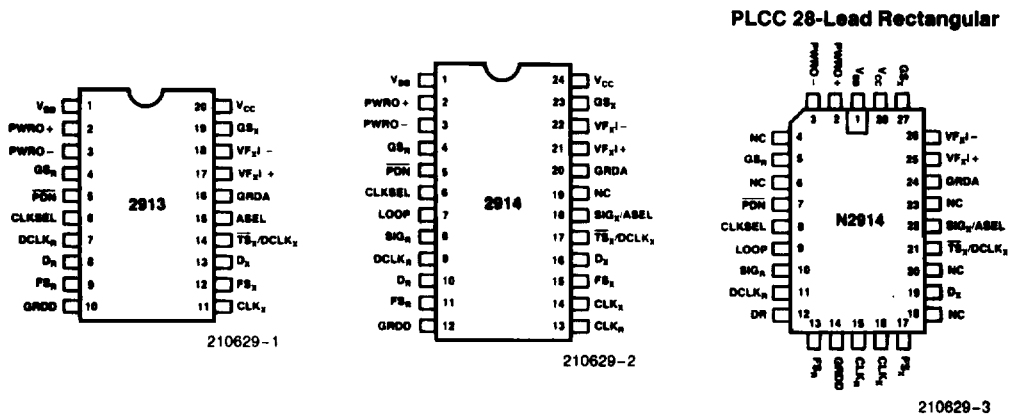


Figure 1. Pin Configurations

The complete document for this product is available on Intel's "Data-on-Demand" CD-ROM product. Contact your local Intel field sales office, Intel technical distributor, or call 1-800-548-4725.