



MOTOROLA

MC34014

Specifications and Applications Information

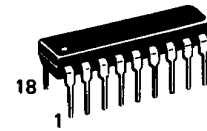
TELEPHONE SPEECH NETWORK WITH DIALER INTERFACE

The MC34014 is a Telephone Speech Network integrated circuit which incorporates adjustable transmit, receive, and sidetone functions, a dc loop interface circuit, tone dialer interface, and a regulated output voltage for a pulse/tone dialer. Also included is an equalization circuit which compensates gains for line length variations. The conversion from 2-to-4 wire is accomplished with a supply voltage as low as 1.5 volts. The MC34014 is packaged in a standard 18-pin (0.3" wide) plastic DIP, a 20-pin surface mount PLCC package, and a 20-pin SOIC package.

- Transmit, Receive, and Sidetone Gains Set by External Resistors
- Loop Length Equalization for Transmit, Receive, and Sidetone Functions
- Operates Down to 1.5 volts (V+) in Speech Mode
- Provides Regulated Voltage for CMOS Dialer
- Speech Amplifiers Muted During Pulse and Tone Dialing
- DTMF Output Level Adjustable with a Single Resistor
- Compatible with 2-Terminal Electret Microphones
- Compatible with Receiver Impedances of 150 Ω and Higher

TELEPHONE SPEECH NETWORK WITH DIALER INTERFACE

SILICON MONOLITHIC INTEGRATED CIRCUIT



P SUFFIX
PLASTIC PACKAGE
CASE 707-02

DW SUFFIX
PLASTIC PACKAGE
CASE 751D-03
SO-20L



FN SUFFIX
PLASTIC PACKAGE
CASE 775-02
PLCC-20

BLOCK DIAGRAM

