


SLIC 1-CH 52dB 45mA 3.3V 48-Pin TQFP EP Tray

Manufacturer:	<u>Microchip Technology, Inc</u>
Package/Case:	QFP
Product Type:	Communication & Networking ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Obsolete



Images are for reference only

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General Description

The Le9530 Dual Ringing SLIC device is a dual-channel device optimized to provide battery feed, ringing, and supervision on voice loops found in short-loop VoIP applications. This device is optimized to interface to the Broadcom BCM3378/3380/3382 and BCM6816 devices, or a similar codec. The Le9530 device operates independently from a single, user-adjusted battery and a +3.3 V VCC per channel. Each channel provides forward and reverse battery feed, voice transmission, power ringing, an ultra low-power scan state, ground start (Tip open), and a disconnect state. A test load switch is also included to support integrated test algorithms.

Key Features

Dual Architecture

Two fully independent integrated SLIC channel

No impulse noise crosstalk in any operation states to the listening channel in forward or reverse active states

Two Power Supplies

Single user adjusted battery input per channel

3.3 V for VCC

High Voltage Design

Meets Comcast Ringing requirements without clipping distortion

Robust solution with no damage during extended ringing cycles or switching the ringer on and off

Allows use of 50 Ω protection resistors and lower cost lower current rated protectors

Two Grades

Up to -145 V ringing battery Le9530D

Up to -100 V ringing battery Le9530C

Channel Independent Eight Operating States

Scan state for minimal power dissipation

Active Forward Battery 25mA DC Current Limit

Active Reverse Battery 25mA DC Current Limit

Active Forward Battery 40mA DC Current Limit

Active Reverse Battery 40mA DC Current Limit

Tip Open Ground Start

Ringing

Disconnect (Default Power Up Mode)

Per Channel Ringing Inputs for Optimized Interface to BCM SoC Devices

Allows to accept driving signals from per channel voice outputs as well as from PWM outputs

Ultra-Low On-Hook Power

Loop Start, Ring Trip, and Ground Start Detections

Loop closure detection with hysteresis to minimize dial pulse distortion

Thermal Shutdown Protection with Hysteresis

Test Load Switch

Supports integrated test algorithms

Application

Interface to Broadcom BCM3378/3380E Cable Modem and BCM6816 GPON

VoCable Modem

VoDSL (Voice-over-DSL)

FTTH (Fiber-to-the-Home), GPON, BPON

VoEthernet (Voice-over-Ethernet)



Recommended For You

LE9540DUQC

Microchip Technology, Inc
QFN

Le79Q2281DVC

Microchip Technology, Inc
QFP

Le9641PQC

Microchip Technology, Inc
QFN

LE79252BTC

Microchip Technology, Inc
QFP

LE88266DLC

Microchip Technology, Inc
QFP

Le88830KQC

Microchip Technology, Inc
QFN

Le58QL021BVC

Microchip Technology, Inc
QFP

Le79124KVC

Microchip Technology, Inc
QFP

LE89900AMC

Microchip Technology, Inc
MSOP10

LE79R241DJC

Microchip Technology, Inc
PLCC32

Le79555-2BVC

Microchip Technology, Inc
TQFP44

LE57D121BTC

Microchip Technology, Inc
QFP

LE9500DBJC

Microchip Technology, Inc
PLCC28

LE79R79-1DJC

Microchip Technology, Inc
PLCC32

LE79555-2BVCT

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