

Low Cost 24V SLIC For PABX/Key Systems

The Harris HC5503 low cost SLIC is optimized for use in small Analog or mixed Analog and Digital Key Telephone Systems (KTS) or PBX products. The low component count solution and surface mount package options, enable a small desktop Key System/PBX product to be achieved. The internal power dissipation of the end product is minimized by the low power consumption and minimal power supply voltage requirements of the HC5503.

The HC5503 integrated solution provides higher quality, higher reliability and better performance solution than a transformer, thick film hybrid or discrete analog subscriber interface design.

The HC5503 is designed in a Dielectrically isolated bipolar technology and is inherently latch proof and does not require hot plug or power supply sequencing precautions.

Description

- Wide Operating Battery Range (-21V to -44V)
- Single Additional +5V Supply
- 25mA Short Loop Current Limit
- Ring Relay Driver
- Switch Hook and Ring Trip Detect
- Low On-Hook Power Consumption
- On-Hook Transmission
- ITU-T Longitudinal Balance Performance
- Loop Power Denial Function
- Thermal Protection
- Supports Tip, Ring or Balanced Ringing Schemes
- Low Profile SO and PLCC Surface Mount Packaging
- Pin Compatible with Industry Standard HC5504B SLIC

Ordering Information

PART NUMBER	TEMP. RANGE (°C)	PACKAGE	PKG. NO.
HC5503CM	0 to 75	28 Ld PLCC	N28.45
HC5503CB	0 to 75	24 Ld SOIC	M24.3

Applications

- Analog Subscriber Line Interfaces in Analog Key Systems and Digital ISDN PABX Systems
- Related Literature
 - AN571, Using Ring Sync with HC-5502A and HC-5504 SLICs

Block Diagram

