



LC7355,7356	c-mos LSI	CIRCUIT DRAWING No.4062
PULSE DIALER		 3007A(LC7355) 3008A(LC7356)

General Description

The LC7355 (18-pin package)/LC7356 (20-pin package) are redial function-provided pulse dialer C-MOS LSI's for use in pushbutton telephones. (Dial pulse output (DPO), mute output (MUTE) : Open drain type).


Features

- Low voltage C-MOS process for direct operation from telephone line.
- Possible to use single contact or standard 2-of-7 key pad.
- Contains inexpensive R-C oscillator ($f_{OSC}=5\text{kHz typ.}$).
- Two selections of output pulse rate (20pps or 10pps).
- Two selections of output pulse break/make ratio (1.5 or 2).
- Four selections of inter-digit pause (500/400msec: 20pps, 1000/800msec: 10pps)
- Redial function (3 digits to 20 digits) available with [#] key.
- PBX redial function available with access code (2 digits or less).
- Supply voltage: $V_{DD}=1.5$ to 3.5V , Operating temperature: $T_{opg}=-30$ to $+70^{\circ}\text{C}$.
- Operating Current: $I_{DDmax}=100\mu\text{A}/V_{DD}=3.5\text{V}$,
 $20\mu\text{A}/V_{DD}=1.5\text{V}$.
- Data hold voltage: $V_{DR}\geq 1.0\text{V}$, Data hold Current: $I_{DR}\leq 0.4\mu\text{A}(V_{DD}=1.0\text{V})$

LC7365,7366	c-mos LSI	CIRCUIT DRAWING No.4063,4064
TONE DIALER		 3006A

Features

- Wide operating supply voltage range: 2.5 to 10V.
- Can be powered directly from telephone line or from small batteries.
- Use TV crystal standard (3.58MHz) to Derive all frequencies, thus providing very high accuracy and stability.
- Mute and XMIT drivers on chip.
- Interfaces directly to a standard telephone push-button or calculator type X-Y keyboard.
- Low output tone distortion: 7% Max.
- Oscillator bias resistor and capacitor on chip.
- On-chip generation of a reference voltage to assure amplitude stability of the dual tone over the operating voltage and temperature range.
- Dual tone as well as single tone capability.
- Operating temperature: -30°C to $+70^{\circ}\text{C}$.
- Operating current: $I_{DD(max)}=3\text{mA}(V_{DD}=2.5\text{V})$, $16\text{mA}(V_{DD}=10.0\text{V})$.
- Standby current: $I_{DD(typ)}=0.3\mu\text{A}(V_{DD}=2.5\text{V})$, $1\mu\text{A}(V_{DD}=10.0\text{V})$.
- The LC7366 can be interfaced direct to C/MOS logic output.

LC7370	c-mos LSI	CIRCUIT DRAWING No.4065
REPERTORY DIALER		 3014A

Features

- CMOS process achieves low power operation.
- 16-digit number capability.
- Dial pulse and mute output.
- 15-key input with beep-tone feature.
- Two selections of dial pulse rate (10pps or 20pps).
- Two selections of inter-digit pause (800ms or 400ms).
- Two selections of mark/space ratio (33-1/3/66-2/3 or 40/60).
- Five 16-digit number memories plus last number redial (16-digit) memory on chip.
- Memories can be extendable to totally 70 16-digit number by using one 1k x 4 or four 256 x 4 RAM.
- 1-digit LED display