

CMOS 4-BIT MICROCONTROLLER

TMP47C407AN
TMP47C407AF

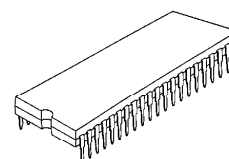
The 47C407A is a high performance 4-bit single chip microcomputer based on the TLCS-47 CMOS series with a DTMF generator and a large-capacity RAM for repertory dialing applications, and which is suitable for utilization in telephones.

PART No.	ROM	RAM	PACKAGE	OTP version
TMP47C407AN	4096 × 8-bit	768 × 4-bit	SDIP42-P-600-1.78	TMP47P407AN
TMP47C407AF			QFP44-P-1414-0.80D	TMP47P407AF

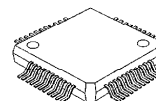
FEATURES

- ◆ 4-bit single chip microcomputer
- ◆ Instruction execution time : 2.1 μ s (at 3.84MHz)
- ◆ Low voltage operation : 2.7V min.
- ◆ 90 basic instructions
- ◆ Table look-up instructions
- ◆ Subroutine nesting : 15 levels max.
- ◆ 5 interrupt sources (External : 2, Internal : 4)
All sources have independent latches each, and multiple interrupt control is available.
- ◆ I/O port (35 pins)
 - Input 2ports 5pins
 - Output 1port 3pins
 - I/O 7ports 27pins
- ◆ Interval Timer
- ◆ Two 12-bit Timer/Counters
Timer, event counter, and pulse width measurement mode
- ◆ Serial Interface with 4-bit buffer
External/internal clock, leading/trailing edge shift mode
- ◆ DTMF (Dual Tone Multi Frequency) Output
 - DTMF output with one instruction
 - Single tone output function
- ◆ RAM for repertory dial : 768 × 4 bit max.
- ◆ BEEP output function
- ◆ Hold function
 - Battery/Capacitor back-up
 - Hold function controlled by port K0.
- ◆ Real Time Emulator : BM47215B

SDIP42-P-600-1.78


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