

Part No. TC94A09F

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## TC94A09F Datasheet (PDF) - Toshiba Semiconductor

Part No.	TC94A09F
Description	<a href="#">Single-Chip CD Processor with Built-in Controller</a>
File Size	270.4 Kbytes
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TC94A09F

TOSHIBA CMOS Digital Integrated Circuit Silicon Monolithic

**TC94A09F**

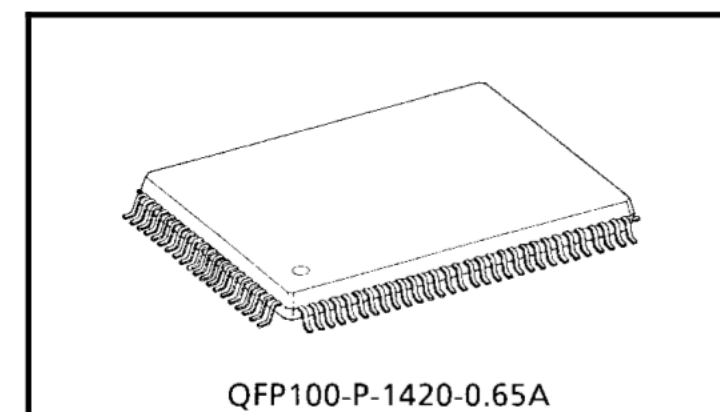
Single-Chip CD Processor with Built-in Controller

The TC94A09F is a single-chip CD processor for digital servo. The IC has a built-in 4-bit microcontroller.

The controller features an LCD/LED driver, 4-channel 6-bit AD converter, 2/3-line serial interface, buzzer, interrupt function, and 8-bit timer/counter. The CPU can select one of three crystal oscillator operating clocks (16.9344 MHz, 4.5 MHz, and 75 kHz), facilitating interface with the CD processor.

The CD processor incorporates sync separation protection and interpolation, EFM decoder, error correction, digital equalizer for servo, and servo controller. The CD processor also incorporates a 1-bit DA converter. In combination with a RF amp TA2153FN and TA2109F, the TC94A09F can very simply configure an adjustment-free CD player.

Thus, the IC is suitable for CD systems for automobiles and radio-cassette players.



QFP100-P-1420-0.65A

Weight: 1.6 g (typ.)

**Features**

- Single-chip CD processor with built-in CMOS LCD/LED driver and 4-bit microcontroller
- Operating voltage
  - At CD on:  $V_{DD} = 4.5$  to  $5.5$  V (typ.  $5.0$  V)
  - At CD off:  $V_{DD} = 3.0$  to  $5.5$  V (only CPU on)
- Current dissipation
  - At CD on:  $I_{DD} = 50$  mA (typ.)
  - At CD off:  $I_{DD} = 2$  mA (with 4.5 MHz crystal oscillator, only CPU on)
  - At CD off:  $I_{DD} = 0.3$  mA (with 75 kHz crystal oscillator, only CPU on)
- Operating temperature range
  - $T_a = -40$  to  $85^\circ\text{C}$
- Package
  - QFP100-P-1420-0.65A (0.65 mm pitch, 2.7 mm thick)
- One-time PROM version
  - TC94AP09F

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Part Number	Components Description	Html View	Manufacturer
CXD3048R	CD Digital Signal Processor with Built-in Digital Servo + Shock-proof Memory Controller + Digital High & Bass Boost	<a href="#">1</a> <a href="#">2</a> <a href="#">3</a> <a href="#">4</a> <a href="#">5</a> <a href="#">More</a>	Sony Corporation
CXD3029R	CD Digital Signal Processor with Built-in Digital Servo + Shock-proof Memory Controller + Digital High & Bass Boost	<a href="#">1</a> <a href="#">2</a> <a href="#">3</a> <a href="#">4</a> <a href="#">5</a> <a href="#">More</a>	Sony Corporation
CXD3027R	CD Digital Signal Processor with Built-in Digital Servo + Shock-Proof Memory Controller + Digital High & Bass Boost	<a href="#">1</a> <a href="#">2</a> <a href="#">3</a> <a href="#">4</a> <a href="#">5</a> <a href="#">More</a>	Sony Corporation
CXD3011R-1	CD Digital Signal Processor with Built-in Digital Servo and DAC	<a href="#">1</a> <a href="#">2</a> <a href="#">3</a> <a href="#">4</a> <a href="#">5</a> <a href="#">More</a>	Sony Corporation
M61510AFP	Sound Controller for Quality/Sound Field Control with Built-in Surround Sound	<a href="#">1</a> <a href="#">2</a> <a href="#">3</a> <a href="#">4</a> <a href="#">5</a> <a href="#">More</a>	Renesas Technology Corp
M37266ME-XXXSP	SINGLE-CHIP 8-BIT CMOS MICROCOMPUTER with CLOSED CAPTION DECODER and ON-SCREEN DISPLAY CONTROLLER	<a href="#">1</a> <a href="#">2</a> <a href="#">3</a> <a href="#">4</a> <a href="#">5</a> <a href="#">More</a>	Mitsubishi Electric Semiconductor
BU9534KV	Signal processor LSI with anti-shock memory controller for CD players	<a href="#">1</a> <a href="#">2</a>	LSI Computer Systems
DM9000A	Ethernet Controller with General Processor Interface	<a href="#">1</a> <a href="#">2</a> <a href="#">3</a> <a href="#">4</a> <a href="#">5</a> <a href="#">More</a>	List of Unclassified Manufacturers
BG240128A	SMT PCB with metal frame Built-in controller T6963C	<a href="#">1</a>	Bolymin, Inc

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