

Classification	Type No.	Function	Package
General-use PLL	TC5081AP	Phase comparator	SIP9-P-A
	TC5082P/P-L	High-speed divider 1/256, 1/1024, 1/2048, 1/4096	
	TC9122P	High-speed programmable counter BCD 1/3999	DIP18-P-300A
	TC9181P/F	PLL for MCA/Personal radio	DIP18-P-300A SOP24-P-450B
	TC9198P/F	High-speed programmable counter binary/BCD	DIP24-P-300 SOP24-P-450B
	TC9223P/F	PLL for communication equipment	DIP16-P-300A SOP16-P-300
	TC9216P	PLL for 140MHz audio	DIP16-P-300A
	TC9217P		DIP20-P-300A
Prescaler	TD6127BP	1GHz 1/64,65, 1/128,129	DIP8-P-300
	TD6128P/F	500MHz 1/64,65, 1/128,129	
	TD6129P/F	160MHz 1/16,17	DIP8-P-300 SOP8-P-225
	TD6134AF	250MHz $\frac{1}{4} + (\frac{1}{15,16})$, $\frac{1}{8} + (\frac{1}{15,16})$, Vcc=1.8~5.5V	SOP8-P-225
	TD6137F	450MHz $\frac{1}{2} + (\frac{1}{16,17} \text{ or } \frac{1}{32,33} \text{ or } \frac{1}{64,65})$, Vcc=3.0~5.5V	SOP8-P-225
	TD7101F	150MHz $\frac{1}{4} + (\frac{1}{15,16})$ or $\frac{1}{15,16}$, Vcc=1.8~5.5V	SOP8-P-225
	TD7103F	150MHz ($\frac{1}{4}$ or $\frac{1}{8}$) + $(\frac{1}{15,16})$, Vcc=1.0~4.5V	SOP10-P-225
	TD7104P/F	1GHz 1/1, 1/2, 1/4, 1/8, Vcc=3.0~6.0V	DIP8-P-300 SOP8-P-225

CD Player

Classification	Type No.	Function		Package
Single-chip processor	TC9236AF	Sync separation. EFM demodulation. Error detection, correction/compensation output. Microcontroller interface. PLL, data slicer, CLV servo, F/T servo control.		QFP80-P-1420A
	*TC9284AF	Search control (5th generation system) 8 time oversampling digital filter, 1 bit DA converter		
	**TC9263AF	Sync separation. EFM demodulation. Error detection, correction/compensation output. Microcontroller interface. PLL, data slicer, CLV servo, F/T servo control. Search control, Variable pitch control, Peak meter		QFP100-P-1420
Focus-tracking servo	TA8190F	Focus/tracking error amp.	±5V dual power supply	QFP44-P-1414B
	TA8191F		+5V single power supply	QFP44-P-1010C
	TA2031F	Focus/tracking servo amp.	for pohrogram PUH	
	TA2035F	Auto laser power control	+5V single power supply (Low voltage operation)	QFP48-P-1014
	**TA2065F	(5th & 6th generation system)		
Dual BTL driver	TA2058F	QUAD BTL actuator driver		HSOP20-P-450
Dual PWM driver	TA8459F	Dual H driver		SOP20-P-300
	TA8460F	Dual PWM pre-drive. H drive. AGC		QFP32-P-0707
Power driver	TA8212F	Quad power driver		HSOP20-P-450
Emphasis amp.	TA7415P	Output amp.		SZIP21-P
Digital filter	TC9197F	FIR digital filter { AD side: 2- or 4-time under sampling DA side: 2- or 4-time oversampling		QFP44-P-S14B
DAC	TD6710AN/AF	15-bit low-power DAC (integral method)		SDIP24-P-300 SSOP24-P-300
	TC9250P/F	16-bit twin DAC (R-strings method)		DIP16-P-300 ASOP16-P-300
DAC with digital filter	TC9268/78P/F	Twin DAC with 8-time oversampling digital filter (sigma delta DA conversion system)		SOP20-P-300 DIP20-P-300
	TC9276P/F	Twin DAC with 8-time oversampling digital filter (sigma delta DA conversion system) soft mute		SOP20-P-300 DIP20-P-300
	TC9237BN/BF	Twin DAC with 8-time oversampling digital filter (sigma delta DA conversion system)		SDIP28-P-400 SOP28-P-450
	TC9270/80F/N	Twin DAC with 8-time oversampling digital filter (sigma delta DA conversion system) Digital Attenuater		SOP28-P-450 SDIP28-P-400
	TC9293F/FN/N	Twin DAC with 8 time oversampling digital filter (sigma delta DA coversion system). Digital attenuater. Built-in analog filter		SOP24-P-300 SOP24-P-300A SDIP24-P-300
Filter IC for 1 bit DAC	TA2009P/F	LPF, Amp	+5V single power supply	DIP16-P-300A
	TA2028P/F		±5V dual power supply	SDIP28-P-400
	*TA2063F	Twin DAC with 8 time oversampling digital filter (sigma delta DA coversion system). Digital attenuater. Built-in analog filter	+5V single power supply	SSOP16-P-225A
Digital out	TC9231N	Digital audio interface modulation and transmission		SDIP28-P-400
	TC9271F/N			SOP28-P-450 SDIP28-P-400
PLL IC	TC9246F/P	PLL, Microcontroller interface, programable counter		SOP16-P-300 DIP16-P-300A
Multi regulator IC	TA8224H	Three regulated voltage outputs for CDP system with reset circuit.		HZIP12-P-B
±5V Regulator IC	TA2019AP	±5V Regulator with reset circuit.		DIP16-P-300A

*: New products **: Under development