

Analog and Mixed Signal Products

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Digital Video—Product Selection Table

Product Area	Markets										
	Cable Modems & Set-top Boxes	Data Communications	Hand-Held and Portables	Industrial Voltage Controllers	Instrumentation and Data Acquisition	Medical	Multimedia Audio and Video	PCs and Workstations	Power Supplies	Professional Video	Space and Avionics
Analog-to-Digital Converters	•	•	•		•	•	•	•		•	•
Correlators		•			•	•					•
Demo Boards							•	•		•	
Digital Video Decoders & Genlocks							•	•		•	
Digital Video Encoders	•						•	•		•	
Digital-to-Analog Converters						•	•	•		•	•
Imaging & Video Filters	•				•	•	•	•		•	
Imaging & Video Processors	•					•	•	•		•	
Memory & Storage Products		•				•				•	•
Power Management	•	•	•	•	•	•	•	•	•	•	•
Standard Products	•	•	•	•	•	•	•	•	•	•	•
Military Grade Products	•	•	•	•	•	•	•	•	•	•	•

Digital Video—Analog-to-Digital Converters

Fairchild Semiconductor offers a wide range of high speed Analog-to-Digital Converters for video signal processing. Resolutions range from 4 to 10 bits and conversion rates run from 2.5 to 50 Msps. The CMOS converters provide high performance at low power levels.

Product	Bits	Conversion Rate (MSPS) ¹	RMS/RMS SNR (dB) ¹	Package	Comments		
TMC1185NDC40	10	40	55	28-Pin SOIC	CMOS, High Quality Video		
TDC1020J1C	10	20	55	64-Pin DIP			
TDC1020G0C				68-Pin PGA			
TDC1049J3C	9	30	48	64-Pin DIP	ECL		
TDC1049C1C				68-Pin LCC			
TDC1049G8C				68-Pin PGA			
TDC1035B7C	8	—	—	24-Pin DIP	Peak Detector, 30 ns		
TDC1035R3C				28-Pin PLCC			
TDC1007J1C3	8	20	48	64-Pin DIP			
TDC1001B8C	8	2.5	—	18-Pin DIP			
TMC1103KLC50	8	50	40	80-Pin MQFP	CMOS, Triple 8-Bit w/Clamps		
TMC1103KLC40		40	40				
TMC1103KLC20		20	45				
TMC1173AN2C20	8	20	30	24-Pin PDIP	CMOS, +3V Supply		
TMC1173AM7C20				24-Pin SOIC			
TMC1173AR3C20				28-Pin PLCC			
TMC1173AN2C10		10	39	39		24-Pin PDIP	
TMC1173AM7C10						24-Pin SOIC	
TMC1173AR3C10						28-Pin PLCC	
TMC1173AN2C05		5	46	46		24-Pin PDIP	
TMC1173AM7C05						24-Pin SOIC	
TMC1173AR3C05						28-Pin PLCC	
TMC1175AN2C50		8	50	—		24-Pin PDIP	CMOS
TMC1175AM7C50						24-Pin SOIC	
TMC1175AR3C50						28-Pin PLCC	
TMC1175AN2C40	40		36	36	24-Pin PDIP		
TMC1175AM7C40					24-Pin SOIC		
TMC1175AR3C40					28-Pin PLCC		
TMC1175AN2C30	30		37	37	24-Pin PDIP	CMOS, Sony CXD1175A Second Source	
TMC1175AM7C30					24-Pin SOIC		
TMC1175AR3C30					28-Pin PLCC		
TMC1175AN2C20	20		42	42	24-Pin PDIP		
TMC1175AM7C20					24-Pin SOIC		
TMC1175AR3C20					28-Pin PLCC		

Notes:

1. Minimum or Maximum Worst Case Condition. See data sheet for details.
2. CF = Consult Factory.

Digital Video—Analog-to-Digital Converters (continued)

Product	Bits	Conversion Rate (MSPS) ¹	RMS/RMS SNR (dB) ¹	Package	Comments
TMC1203KLC50	8	50	40	80-Pin MQFP	CMOS, Triple 8-Bit
TMC1203KLC40		40	40		
TMC1203KLC20		20	45		
TDC1047B7C	7	20	39	24-Pin DIP	
TDC1046B8C	6	25	33	18-Pin DIP	
TDC1044AN9C	4	25		16-Pin PLCC	
TDC1044AR4C				20-Pin PLCC	

Notes:

1. Minimum or Maximum Worst Case Condition. See data sheet for details.
2. CF = Consult Factory.

Digital Video—Correlators

Fairchild Semiconductor is a leader in CMOS correlators for high performance signal and image processing applications. Correlators measure the similarity between two digital signal streams, useful in pattern recognition. All correlators are TTL compatible.

Product	Description	Size	Clock Rate (MHz) ¹	Power (Watts) ¹	Package	Comments
TMC2023N2C	Correlator	64 x 1	25	0.3	24-Pin SPDIP	Binary-weighted digital output. Masking register.
TMC2023N7C					24-Pin PDIP	
TMC2023R3C					28-Pin PLCC	
TMC2023N2C1			30	0.4	24-Pin SPDIP	
TMC2023N7C1					24-Pin PDIP	
TMC2023R3C1					28-Pin PLCC	
TMC2023N2C2			35	0.4	24-Pin SPDIP	
TMC2023N7C2					24-Pin PDIP	
TMC2023R3C2					28-Pin PLCC	
TMC2023N2C3			50	0.5	24-Pin SPDIP	
TMC2023N7C3					24-Pin PDIP	
TMC2023R3C3					28-Pin PLCC	
TMC2220H8C	Correlator	32 x 4	17	0.3	68-Pin PGA	Modular, reconfigurable
TMC2220H8C1			20			
TMC2221B6C		128 x 1	17	28-Pin DIP		
TMC2221B6C1			20			

Notes:

1. Minimum or Maximum Worst Case Condition. See data sheet for details.
2. CF = Consult Factory.

Digital Video—Demo Boards

Fairchild Semiconductor's demonstration boards offer examples of how the division's ICs may be used in various designs. Packaged in simple plug-together modules, the boards allow for quick, simple evaluation of a wide range of the video products.

Product	Description	Package
TMB2193MS100	Demonstration Board for the TMC2193	4" by 5" Printed Circuit Board
TMB22153AMS101	Demonstration Board for the TMC22x5yA	4" by 5" Printed Circuit Board
TMC1175AE1C	Evaluation Board for the TMC1175A	4" x 6" Printed Circuit Board
TMC2069P7C	Demonstration Board for the TMC3003 DAC	4" by 5" Printed Circuit Board
TMC2070P7C	Parallel to RBUS Adapter	1" by 2" Printed Circuit Board
TMC2074P7C	Demonstration Board for the TMC2490(1)A	4" by 5" Printed Circuit Board
TMC2302AP5C	TMC2302A Demo Board	ISA Bus Board
TMC2340AP7C	Demonstration Board for the TMC2340A	6" by 9" Printed Circuit Board

Digital Video—Decoders and Genlocks

Fairchild Semiconductor provides high levels of system integration while providing the strongest performance levels available in monolithic solutions. The adaptive, comb-based video decoders are optimized for the video professional, allowing flexibility in system performance while utilizing a common design approach. The genlocking ADC is a companion product for both the decoders and the encoders.

Product	Description	Size	Clock Rate (MHz) ¹	Power (Watts) ¹	Package	Comments
TMC22071AR1C	8-Bit, Genlocking Video	8	31	1.1	68-Pin PLCC	12.27, 13.5 MHz NTSC
TMC22071AKHC	Digitizer				100-Pin MQFP	13.5 PAL
TMC2072KHC	8-Bit, Improved Genlocking Video Digitizer	8	31	1.1	100-Pin PLCC	12.27, 13.5 MHz NTSC 13.5, 14.75, 15 MHz PAL
TMC22051KHC	8-Bit Simple Decoder	8	36	0.8	100-Pin MQFP	
TMC22052KHC	8-Bit 2-Line Comb Decoder	8	36	0.8	100-Pin MQFP	
TMC22053AKHC	Improved 8-Bit 3-Line Comb Decoder	8	36	0.8	100-Pin MQFP	Adaptive comb
TMC22151KHC	10-Bit Simple Decoder	10	36	0.8	100-Pin MQFP	
TMC22152KHC	10-Bit 2-Line Comb Decoder	10	36	0.8	100-Pin MQFP	
TMC22153AKHC	Improved 10-Bit 3-Line Comb Decoder	10	36	0.8	100-Pin MQFP	Adaptive comb with broadcast quality

Notes:

1. Minimum or Maximum Worst Case Condition. See data sheet for details.
2. CF = Consult Factory.

Digital Video—Encoders

Fairchild Semiconductor provides industry leading performance levels in integrated solutions for the complex conversion of digital data into television compliant signals. All NTSC and PAL television system standards are supported S-Video outputs, supplied on all products, offer optimum signal performance. Macrovision encryption is supported on elected products.

Product	Description	# of DACs	Bit Resolution D/A	MPEG Interface	Macrovision	YCbCr 4:2:2 8-Bit	YCbCr 4:2:2 16-Bit	YPbPr Outputs	RGB 4:4:4 24-Bit	RGB Outputs	NTSC-M	NTSC-EIA	PAL-I	PAL-N/M	Composite Output	S-video	Master/Slave/D1/Genlock	Package	Comments
TMC2192KHC	10 Bit Encoder	3	10	•		•	•				•	•	•	•	•	•	M/S/G/D1	100-Pin MQFP	
TMC2193KJC	10 Bit Encoder	4.5	10	•		•	•	•	•	•	•	•	•	•	•	•	M/S/G/D1	100-Pin MQFP	
TMC22091ROC	Genlocking Encoders	3	10				•		•		•	•	•	•	•	•	M/S/G	84-Pin PLCC	Works with TMC22071A genlocking digitizer
TMC22091KHC																		100-Pin MQFP	
TMC22191ROC	Genlocking Encoders w/ Overlay Engine	3	10				•		•		•	•	•	•	•	•	M/S/G	84-Pin PLCC	Works with TMC22071A genlocking digitizer
TMC22191KHC																		100-Pin MQFP	
TMC2490AR2C	Multistandard Digital Video Encoder	3	10	•		•					•	•	•	•	•	•	M/D1	44-Lead PLCC	
TMC2491AR2C	Set-top Encoder w/ Closed Caption	3	10	•	•	•					•	•	•	•	•	•	M/D1	44-Pin PLCC	Macrovision 7.01

Notes:

1. CF = Consult Factory.

Digital Video—Digital-to-Analog Converter

Fairchild Semiconductor offers a range of high speed Digital-to-Analog Converters in resolutions from 8 to 10 bits. Conversion rates are from 20 to 80 Msps. High performance CMOS DACs provide excellent performance with CMOS power consumption.

Product	Bits	Differential Linearity Error ($\pm\%$) ¹	Data Rate (MHz) ¹	Rise Time (ns) ¹	Package	Comments	
TMC3003R2C80	10	0.25	80	4	44-Pin PLCC	Triple 10-Bit DAC Analog Devices ADV7122 enhanced second source	
TMC3003R2C50			50				
TMC3003R2C30			30				
TMC3003KRC80			80		48-Pin LQFP		
TMC3003KRC50			50				
TMC3003KRC30			30				
TMC3033R2C80	10	0.25	80	4	44-Pin PLCC	Triple 10-Bit DAC Analog Devices ADV7122 enhanced second source 3.3V operation	
TMC3033R2C50			50				
TMC3033R2C30			30				
TMC3033KRC80			80		48-Pin LQFP		
TMC3033KRC50			50				
TMC3033KRC30			30				
TDC1016N7C8	10	0.200	20	5.5	24-Pin PDIP		
TDC1016N5C8					40-Pin PDIP		
TDC1016N7C9					24-Pin PDIP		
TDC1016N5C9		0.100			40-Pin PDIP		
TDC1016N7C10					0.050		24-Pin PDIP
TDC1016N5C10							40-Pin PDIP
TMC3503R2C80	8	0.3	80	4	44-Pin PLCC	Triple 8-Bit DAC Analog Devices ADV7120 enhanced second source	
TMC3503R2C50			50				
TMC3503R2C30			30				
TMC3503KRC80			80		48-Pin LQFP		
TMC3503KRC50			50				
TMC3503KRC30			30				
TMC3533R2C80	8	0.3	80	4	44-Pin PLCC	Triple 8-Bit DAC Analog Devices ADV7120 enhanced second source 3.3V operation	
TMC3533R2C50			50				
TMC3533R2C30			30				
TMC3533KRC80			80		48-Pin LQFP		
TMC3533KRC50			50				
TMC3533KRC30			30				

Notes:

1. Minimum or Maximum Worst Case Condition. See data sheet for details.
2. CF = Consult Factory.

Digital Video—Imaging & Video Filters

Fairchild Semiconductor is a leader in dedicated products for image processing applications. Filters are optimized for specific video requirements and are offered in a variety of word sizes and speeds allowing each user to tailor the design uniquely. All products are TTL compatible and produced in CMOS for low power consumption.

Product	Description	Size	Clock Rate (MHz) ¹	Power (Watts) ¹	Package	Comments
TMC2242AR2C	Half-Band Filter	12 x 12	30	0.8	44-Pin PLCC	-6dB Interpolation Gain 0dB Decimation
TMC2242AR2C1	2:1 Decimator		40	1.0		
TMC2242AR2C2	1:2 Interpolator		60	1.5		
TMC2242AKTC			30	0.8	44-Pin MQFP	
TMC2242AKTC1			40	1.0		
TMC2242AKTC2			60	1.5		
TMC2242BR2C	Half-Band Filter	12 x 12	30	0.8	44-Pin PLCC	0dB Interpolation Gain 0dB Decimation
TMC2242BR2C1	2:1 Decimator		40	1.0		
TMC2242BR2C2	1:2 Interpolator		60	1.5		
TMC2242BKTC			30	0.8	44-Pin MQFP	
TMC2242BKTC1			40	1.0		
TMC2242BKTC2			60	1.5		
TMC2242CR2C	Improved Half-Band Filter	12 x 12	40	0.5	44-Pin PLCC	Dual Mux Mode
TMC2242CR2C1			60	0.7	44-Pin MQFP	
TMC2242CKTC			40	0.5		
TMC2242CKTC1			60	0.7		
TMC2246AH5C	Image Filter	10 x 11 4 Tap	30	0.5	120-Pin PPGA	Four-Pixel Interpolator
TMC2246AH5C1			40	0.6		
TMC2246AH5C2			60	0.9		
TMC2246AKEC			30	0.5	120-Pin MQFP	
TMC2246AKEC1			40	0.6		
TMC2246AKEC2			60	0.9		
TMC2249AH5C	Dual Mixer	12 x 12 2 Tap	25	0.4	120-Pin PPGA	Cascadeable, 12-Bit Mixer
TMC2249AH5C1			40	0.5		
TMC2249AH5C2			60	0.7		
TMC2249AKEC			25	0.4	120-Pin MQFP	
TMC2249AKEC1			40	0.5		
TMC2249AKEC2			60	0.7		
TMC2250AH5C	Matrix Multiplier	12 x 10 9 Tap	30	0.7	120-Pin PPGA	User Configurable 9-Multiplier Convolver
TMC2250AH5C2			40	0.7		
TMC2250AH5C3			50	0.8		
TMC2250AKEC			30	0.7	120-Pin MQFP	
TMC2250AKEC2			40	0.7		
TMC2250AKEC3			50	0.8		
TMC2272AH5C	Color Space Converter	12 x 10 9 Tap	30	0.7	120-Pin PPGA	
TMC2272AH5C2			40	0.7		
TMC2272AH5C3			50	0.8		
TMC2272AKEC			30	0.7	120-Pin MQFP	
TMC2272AKEC2			40	0.7		
TMC2272AKEC3						

Notes:

1. Minimum or Maximum Worst Case Condition. See data sheet for details.

Digital Video—Imaging & Video Processors

Fairchild Semiconductor is the leader in dedicated image and video processors. Products include the TMC2360 video processor, for the conversion of VGA signals from a PC to a TV set, and the TMC2302A manipulation sequencer for generating and processing video special effects.

Product	Description	Size	Clock Rate (MHz) ¹	Power (Watts) ¹	Package	Comments
TMC2081KBC	Digital Video Mixer		40	1.8	128-Pin MQFP	Alpha Mixer
TMC2301H8C	Image Resampling Sequencer (IRS)	4K x 4K Pixels	15	0.4	68-Pin PPGA	
TMC2301R1C					68-Pin PLCC	
TMC2301H8C1			18	0.5	68-Pin PPGA	
TMC2301R1C1					68-Pin PLCC	
TMC2301H8C2			20	0.5	68-Pin PPGA	
TMC2301R1C2					68-Pin PLCC	
TMC2302AH5C			Image Manipulation Sequencer (IMS)	65K Pixels Per Side	30	
TMC2302AKEC	120-Pin MQFP					
TMC2302AH5C1	40				120-Pin PPGA	
TMC2302AKEC1					120-Pin MQFP	
TMC2330AH5C	Coordinate Transformer	16 x 16 Bit	20	0.7	120-Pin PPGA	Two's complement for signal I/O
TMC2330AKEC					120-Pin MQFP	
TMC2330AH5C1			40	1.3	120-Pin PPGA	
TMC2330AKEC1					120-Pin MQFP	
TMC2330AH5C2			50	1.5	120-Pin PPGA	
TMC2330AKEC2					120-Pin MQFP	
TMC2340AH5C	Digital Synthesizer	16 x 16 Bit	20	0.5	120-Pin PPGA	Quadrature matched offset binary output
TMC2340AKEC					120-Pin MQFP	
TMC2340AH5C1			40	0.6	120-Pin PPGA	
TMC2340AKEC1					120-Pin MQFP	
TMC2340AH5C2			50	0.7	120-Pin PPGA	
TMC2340AKEC2					120-Pin MQFP	
TMC2360KLC	Flicker-Free PC-to-TV encoder	8-Bit x 3 Channel	27	1.5	80-Pin MQFP	Analog I/O 800x600 PAL, 8-bit ADCs
TMC2601	SMPTE259 Serializing Encoder	10-bit	400	0.5	44-lead PLCC	
TMC3211H5C	Integer Divider	32/16 bits	20	0.5	120-Pin PPGA	

Notes:

1. Minimum or Maximum Worst Case Condition. See data sheet for details.
2. CF = Consult Factory.

Digital Video—Memory & Storage Products

These Fairchild Semiconductor memory and storage products are designed for high speed video signal processing. A high speed CMOS version offers programmable register lengths for system flexibility.

Product	Description	Size	Clock Rate (MHz) ¹	Power (Watts) ¹	Package	Comments
TMC2011AN2C	Programmable Shift Register	3 - 18 x 8	30	0.16	24-Pin SPDIP	LDIL10C11 Second Source
TMC2011AR3C					28-Pin PLCC	
TMC2011AN2C1			40	0.21	24-Pin SPDIP	Expandable/Cascadeable
TMC2011AR3C1					28-Pin PLCC	
TMC2111AN2C		1 - 16 x 8	30	0.16	24-Pin SPDIP	Expandable/Cascadeable
TMC2111AR3C					28-Pin PLCC	
TMC2111AN2C1			40	0.21	24-Pin SPDIP	
TMC2111AR3C1					28-Pin PLCC	

Notes:

1. Minimum or Maximum Worst Case Condition. See data sheet for details.
2. CF = Consult Factory.

Analog and Mixed Signal Products

Selection Guide

Comparators

Product	Description	Package	Packing	
			Code ¹	Suffix
KA219	Dual Comparator	DIP-14	T	
KA219D		SOP-14	T, T&R	"", TF
KA239A	Quad Comparator	DIP-14	T	
KA239AD		SOP-14	T, T&R	"", TF
KA239		DIP-14	T	
KA239D		SOP-14	T, T&R	"", TF
LM2901M [KA2901D]	Quad Comparator	SOP-14	T, T&R	"", X
LM2901N [KA2901]		DIP-14	T	
LM2903M [KA2903D]	Dual Comparator	SOP-8	T, T&R	"", X
LM2903N [KA2903]		DIP-8	T	
KA293A	Dual Comparator	DIP-8	T	
KA293AD		SOP-8	T, T&R	"", TF
KA293		DIP-8	T	
KA293D		SOP-8	T, T&R	"", TF
LM311M [KA311D]	Single Comparator	SOP-8	T, T&R	"", X
LM311N [KA311]		DIP-8	T	
KA319	Dual Comparator	DIP-14	T	
KA319D		SOP-14	T, T&R	"", TF
KA3302	Quad Comparator	DIP-14	T	
KA3302D		SOP-14	T, T&R	"", TF
KA339AD	Quad Comparator	SOP-14	T, T&R	"", TF
LM339AN [KA339A]		DIP-14	T	
LM339M [KA339D]		SOP-14	T, T&R	"", X
LM339N [KA339]		DIP-14	T	
KA393AD	Dual Comparator	SOP-8	T, T&R	"", TF
LM393AN [KA393A]		DIP-8	T	
LM393M [KA393D]		SOP-8	T, T&R	"", X
LM393N [KA393]		DIP-8	T	
KA710	Single Comparator	DIP-14	T	
KA710D		SOP-14	T, T&R	"", TF
KA711	Dual Comparator	DIP-14	T	
KA711D		SOP-14	T, T&R	"", TF

Note1 Packing Code:

- T = Tube
- B = Bulk
- T&R = Tape and Reel
- A = Ammo Pack
- M = T&R for DPAK at 90°

Operational Amplifiers

Product	Description	Package	Packing	
			Code ¹	Suffix
KF347A	Quad Op Amp, JFET Input	DIP-14	T	
LF347N [KF347]	Quad Op Amp, JFET Input	DIP-14	T	
KF351	Single Op Amp, JFET Input	DIP-8	T	
KF351D		SOP-8	T, T&R	"", T
KF353D	Dual Op Amp, JFET Input	SOP-8	T, T&R	"", TF
LF353N [KF353]		DIP-8	T	
KF442A	Dual Op Amp, JFET Input	DIP-8	T	
KF442		DIP-8	T	
LM1458M [KA1458AD]	Dual OP AMP	SOP-8	T, T&R	"", X
LM1458N [KA1458A]		DIP-8	T	
LM1458CM [KA1458D]		SOP-8	T, T&R	"", X
LM1458CN [KA1458]		DIP-8	T	
KA1458ASTU		SIP-9	T	
KA1458STU		SIP-9	T	
KA201A	Single OP AMP	DIP-8	T	
KA201AD		SOP-8	T, T&R	"", TF
KA224A	Quad OP AMP	DIP-8	T	
KA224AD		SOP-8	T, T&R	"", TF
KA224		DIP-8	T	
KA224D		SOP-8	T, T&R	"", TF
KA248	Quad OP AMP	DIP-14	T	
KA248D		SOP-14	T, T&R	"", TF
KA258A	Dual OP AMP	DIP-8	T	
KA258AD		SOP-8	T, T&R	"", TF
KA258ASTU		SIP-9	T	
KA258		DIP-8	T	
KA258D		SOP-8	T, T&R	"", TF
KA258STU		SIP-9	T	
LM2902M [KA2902D]	Quad OP AMP	SOP-14	T, T&R	"", X
LM2902N [KA2902]		DIP-14	T	
LM2904M [KA2904D]	Dual OP AMP	SOP-8	T, T&R	"", X
LM2904N [KA2904]		DIP-8	T	
KA301A	Single OP AMP	DIP-8	T	
KA301AD		SOP-8	T, T&R	"", TF
LM324AM [KA324AD]	Quad OP AMP	SOP-14	T, T&R	"", X
LM324AN [KA324A]		DIP-14	T	
LM324M [KA324D]		SOP-14	T, T&R	"", X
LM324N [KA324]		DIP-14	T	
KA3303	Quad OP AMP	DIP-14	T	
KA3303D		SOP-14	T, T&R	"", TF

Note1 Packing Code:

- T = Tube
- B = Bulk
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Analog and Mixed Signal Products

Selection Guide

Operational Amplifiers (continued)

Product	Description	Package	Packing	
			Code ¹	Suffix
KA334	Dual OP AMP	DIP-8	T	
KA3403	Quad OP AMP	DIP-14	T	
KA3403D		SOP-14	T, T&R	"", TF
LM348N [KA348]	Quad OP AMP	DIP-14	T	
KA348D		SOP-14	T, T&R	"", TF
KA358STU	Dual OP AMP	SIP-9	T	
KA358ASTU		SIP-9	T	
LM358AM [KA358AD]		SOP-8	T, T&R	"", X
LM358AN [KA358A]		DIP-8	T	
LM358M [KA358D]		SOP-8	T, T&R	"", X
LM358N [KA358]		DIP-8	T	
RC4136N	General Performance Quad 741, Operational Amplifier	PDIP-14	T	
RC4136M		SO-14	T, T&R	"", T
RC4156N	High Performance Quad Operational Amplifiers	PDIP-14	T	
RC4156M		SO-14	T, T&R	"", T
RC4157N	High Performance Quad Operational Amplifiers	PDIP-14	T	
RC4157M		SO-14	T, T&R	"", T
RC4207FN	Precision Dual Operational Amplifiers	PDIP-8	T	
RC4207GN		PDIP-8	T	
KA4558A	Dual OP AMP	DIP-8	T	
KA4558AD		DIP-8	T	
KA4558ASTU		SIP-9	T	
KA4558STU		SIP-9	T	
MC4558CP [KA4558]		DIP-8	T	
MC4558CD [KA4558D]		SOP-8	T, T&R	"", X
RC4559N	High-Gain Dual Operational Amplifiers	PDIP-8	T	
RC4559M		SO-8	T, T&R	"", T
RC4741N	General Purpose Operational Amplifiers	PDIP-14	T	
RC4741M		SO-14	T	
RC4861M	1/2W Audio Power Amplifier with Shutdown	SO-8	T, T&R	"", T
RC5532AN	High Performance, Low Noise Dual Operational Amplifiers	PDIP-8	T	
NE5532N [KA5532]		DIP-8	T	
RC5534AN	High Performance Low Noise Operational Amplifiers	PDIP-8	T	
RC5534N		PDIP-8	T	
RC6302M	Dual Video Amplifiers	SO-8	T	
RC6303M	Triple Video Amplifier with Separate Enable Inputs	SO-16	T	
RC6333M	Triple Video Amplifiers	SO-14	T	
RC6334M	Quad Video Amplifiers	SO-14	T, T&R	"", T
LM741CN [KA741]	Single OP AMP	DIP-8	T	
KA741D		SOP-8	T, T&R	"", TF
KA741I		DIP-8	T	

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Regulators—References and Linear

Product	Description	Package	Packing	
			Code ¹	Suffix
References				
LM336Z25 [KA336Z-2.5]	Programmable shunt regulator, 2.5V	TO-92	B, T&R	"", X
LM336Z5 [KA336Z-5]	5V	TO-92	B, T&R	"", X
LM431ACM [TL431CD] [KA431D]	Reference, Adjustable, 2%	SOP-8	T, T&R	"", X
LM431ACZ [TL431CLP] [KA431Z]	2%	TO-92	B, T&R, A	"", X, XA
TL431CP [KA431]	2%	DIP-8	T	
LM431BCM [TL431ACD] [KA431AD]	1%	SOP-8	T, T&R	"", X
LM431BCZ [TL431ACLP] [KA431AZ]	1%	TO-92	B, T&R, A	"", X, XA
LM431CCZ [KA431LZ]	0.5%	TO-92	B, T&R, A	"", X, XA
RC431AM	Low-Voltage Adjustable Precision	SOT-23-5	T, T&R	"", T
RC431AT	Shunt Regulator/Reference	TO-92	T	
Linear Regulators				
LM317LZ [KA317LZ]	Positive Regulator, Adjustable, 0.1A	TO-92	B, T&R, A	"", X, XA
LM317MDT [KA317MR]	0.5A	D-PAK	T&R, M	X, XM
KA317MTU	0.5A	TO-220	T	
LM317T [KA317TU]	1.0A	TO-220	T	
KA317HVTU	1.5A	TO-220	T	
LM350T [KA350TU]	Positive Regulator, Adjustable, 3A	TO-220	T	
KA337LZ	Negative Regulator, Adjustable, 0.1A	TO-92	T&R	TF
LM337T [KA337TU]	1.0A	TO-220	T	
KA723	Precision Voltage Regulator	DIP-14	T	
KA723D		SOP-14	T, T&R	"", TF
KA7630	Multi Regulator, 5.1V, 8V, 12V	10-SIPH	T	
KA7631	Multi Regulator, 5.1V, 9V, 12V	10-SIPH	T	
KA7632	Multi Regulator, 3.3V, 5.1V, 8V	10-SIPH	T	
KA7633	Multi Regulator, 3.3V, 5.1V, 9V	10-SIPH	T	
RC4194N	Dual Tracking Voltage Regulators	PDIP-14	T	
RC4195N	Fixed + 15V Dual Tracking Voltage Regulator	PDIP-8	T	
RC5102M	Dual Adjustable Linear Voltage Regulator	SO-8	T	

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Regulators—Positive Regulators

Product	Description	Package	Packing	
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Positive Regulators, 0.1A				
MC78L05ACD [KA78L05AD]	Regulator, 5V, 0.1A, 2%	SOP-8	T, T&R	"", X
MC78L05ACP [LM78L05ACZ] [KA78L05AZ]	5V, 0.1A, 2%	TO-92	B, T&R, A	"", X, XA
KA78L06AZ	6V, 0.1A, 2%	TO-92	B, T&R, A	"", TF, TA
KA78L08AD	8V, 0.1A, 2%	SOP-8	T, T&R	"", TF
MC78L08ACP [KA78L08AZ]	8V, 0.1A, 2%	TO-92	B, T&R, A	"", X, XA
KA78L09AZ	9V, 0.1A, 2%	TO-92	B, T&R, A	"", TF, TA
KA78L10AZ	10V, 0.1A, 2%	TO-92	B, T&R, A	"", TF, TA
MC78L12ACD [KA78L12AD]	12V, 0.1A, 2%	SOP-8	T, T&R	"", X
MC78L12ACP [LM78L12ACZ] [KA78L12AZ]	12V, 0.1A, 2%	TO-92	B, T&R, A	"", X, XA
MC78L15ACP [KA78L15AZ]	15V, 0.1A, 2%	TO-92	B, T&R, A	"", X, XA
MC78L18ACP [KA78L18AZ]	18V, 0.1A, 2%	TO-92	B, T&R, A	"", X, XA
MC78L24ACP [KA78L24AZ]	24V, 0.1A, 2%	TO-92	B, T&R, A	"", X, XA
Positive Regulators, 0.5A				
MC78M05CDT [KA78M05R]	Regulator, 5V, 0.5A, 4%	D-PAK	T&R, M	X, XM
MC78M05CT [LM78M05CT] [KA78M05TU]	5V, 0.5A, 4%	TO-220	T	
KA78M06R	6V, 0.5A, 4%	D-PAK	T&R, M	TF, TM
MC78M06CT [KA78M06TU]	6V, 0.5A, 4%	TO-220	T	
MC78M08CDT [KA78M08R]	8V, 0.5A, 4%	D-PAK	T&R, M	X, XM
MC78M08CT [KA78M08TU]	8V, 0.5A, 4%	TO-220	T	
KA78M10TU	10V, 0.5A, 4%	TO-220	T	
MC78M12CDT [KA78M12R]	12V, 0.5A, 4%	D-PAK	T&R, M	X, XM
MC78M12CT [KA78M12TU]	12V, 0.5A, 4%	TO-220	T	
MC78M15CT [KA78M15TU]	15V, 0.5A, 4%	TO-220	T	
MC78M18CT [KA78M18TU]	18V, 0.5A, 4%	TO-220	T	
MC78M20CT [KA78M20TU]	20V, 0.5A, 4%	TO-220	T	
MC78M24CT [KA78M24TU]	24V, 0.5A, 4%	TO-220	T	

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Regulators—Positive Regulators

Product	Description	Package	Packing	
			Code ¹	Suffix
Positive Regulators, 1.0A				
KA7805ATU	Regulator, 5V, 1.0A, 2%	TO-220	T	
MC7805CT [LM7805CT] [KA7805TU]		TO-220	T	
KA7805R		D-PAK	T&R, M	TF, TM
KA7806ATU	6V, 1.0A, 2%	TO-220	T	
MC7806CT [KA7806TU]		TO-220	T	Q1, 2000
KA7808ATU	8V, 1.0A, 2%	TO-220	T	
MC7808CT [KA7808TU]		TO-220	T	
MC7809CDT [KA7809R]	8V, 1.0A, 4%	D-PAK	T&R, M	X, XM
MC7809CT [KA7809TU]	9V, 1.0A, 4%	TO-220	T	
KA7810TU	10V, 1.0A, 4%	TO-220	T	
KA7811TU	11V, 1.0A, 4%	TO-220	T	
KA7812ATU	12V, 1.0A, 2%	TO-220	T	
MC7812CT [KA7812TU]		TO-220	T	
KA7812R		D-PAK	T&R, M	TF, TM
KA7815ATU	15V, 1.0A, 2%	TO-220	T	
MC7815CT [KA7815TU]		TO-220	T	
KA7818ATU	18V, 1.0A, 2%	TO-220	T	
MC7818CT [LM7818CT] [KA7818TU]		TO-220	T	
MC7824CT [KA7824TU]	24V, 1.0A, 4%	TO-220	T	
KA7824ATU	24V, 1.0A, 2%	TO-220	T	
Positive Regulators, 3.0A				
MC78T05CT [KA78T05TU]	Regulator, 5V, 3.0A, 4%	TO-220	T	
MC78T12CT [KA78T12TU]	12V, 3.0A, 4%	TO-220	T	
MC78T15CT [KA78T15TU]	15V, 3.0A, 4%	TO-220	T	
KA78T24TU	24V, 3.0A, 4%	TO-220	T	

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Regulators—Negative Regulators

Product	Description	Package	Packing	
			Code ¹	Suffix
Negative Regulators, 0.1A				
MC79L05ACP [LM79L05ACZ] [KA79L05AZ]	Regulator, -5V, 0.1A, 2%	TO-92	B, T&R, A	"", X, XA
MC79L08ACP [KA79L08AZ]	-8V, 0.1A, 2%	TO-92	B, T&R, A	"", X, XA
MC79L12ACP [KA79L12AZ]	-12V, 0.1A, 2%	TO-92	B, T&R, A	"", X, XA
MC79L15ACP [KA79L15AZ]	-15V, 0.1A, 2%	TO-92	B, T&R, A	"", X, XA
MC79L18ACP [KA79L18AZ]	-18V, 0.1A, 2%	TO-92	B, T&R, A	"", X, XA
MC79L24ACP [KA79L24AZ]	-24V, 0.1A, 2%	TO-92	B, T&R, A	"", X, XA
Negative Regulators, 0.5A				
KA79M05R	Regulator, -5V, 0.5A	D-PAK	T&R, M	TF, TM
KA79M05TU	-5V, 0.5A	TO-220	T	
KA79M06TU	-6V, 0.5A	TO-220	T	
KA79M08R	-8V, 0.5A	D-PAK	T&R, M	TF, TM
KA79M08TU	-8V, 0.5A	TO-220	T	
KA79M12R	-12V, 0.5A	D-PAK	T&R, M	TF, TM
KA79M12TU	-12V, 0.5A	TO-220	T	
KA79M15TU	-15V, 0.5A	TO-220	T	
KA79M18TU	-18V, 0.5A	TO-220	T	
KA79M24TU	-24V, 0.5A	TO-220	T	
Negative Regulators, 1.0A				
KA7905ATU	Regulator, -5V, 1.0 A, 2%	TO-220	T	
MC7905CT [LM7905CT] [KA7905TU]	-5V, 1.0 A, 4%	TO-220	T	
KA7906ATU	-6V, 1.0 A, 2%	TO-220	T	
MC7906CT [KA7906TU]	-6V, 1.0 A, 4%	TO-220	T	
KA7908ATU	-8V, 1.0 A, 2%	TO-220	T	
MC7908CT [KA7908TU]	-8V, 1.0 A, 4%	TO-220	T	
KA7912ATU	-12V, 1.0 A, 2%	TO-220	T	
MC7912CT [KA7912TU]	-12V, 1.0 A, 4%	TO-220	T	
KA7915ATU	-15V, 1.0 A, 2%	TO-220	T	
MC7915CT [KA7915TU]	-15V, 1.0 A, 4%	TO-220	T	
KA7918ATU	-18V, 1.0 A, 2%	TO-220	T	
MC7918CT [KA7918TU]	-18V, 1.0 A, 4%	TO-220	T	
KA7924ATU	-24V, 1.0 A, 2%	TO-220	T	
MC7924CT [KA7924TU]	-24V, 1.0 A, 4%	TO-220	T	

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Regulators—Low Drop Out Regulators

Product	Description	Output Voltage	Output Current	Package	Packing		
					Code ¹	Suffix	
KA78RL00D	Micropower LDO Linear Regulator	Adjustable	0.1A	SOP-8	T, T&R	"", TF	
RC2951M	Micropower LDO Voltage Regulator	Adjustable	0.1A	SO-8	T		
RC2951M33		3.3V	0.1A	SO-8	T		
KA76L05Z	LDO Linear Regulator	5V	0.1A	TO-92	B, T&R, A	"", TF, TA	
RC1616M	LDO Linear Regulator	Adjustable	0.5A	TO-263	T&R	T	
RC1616M25		2.5V	0.5A	TO-263	T&R	T	
RC1616M285		2.85V	0.5A	TO-263	T&R	T	
RC1616M33		3.3V	0.5A	TO-263	T&R	T	
RC1616M5		5V	0.5A	TO-263	T&R	T	
RC1616S		Adjustable	0.5A	SOT-223	T, T&R	"", T	
RC1616S25		2.5V	0.5A	SOT-223	T&R	T	
RC1616S285		2.85V	0.5A	SOT-223	T&R	T	
RC1616S33		3.3V	0.5A	SOT-223	T, T&R	"", T	
KA78RM33		LDO Linear Regulator	3.3V	0.5A	D-PAK	T&R, M	TF, TM
KA78RH33R	LDO Linear Regulator	3.3V	0.8A	D-PAK	T&R, M	TF, TM	
RC1117DT	LDO Linear Regulator	Adjustable	1A	DPAK	T&R	T	
RC1117M		Adjustable	1A	TO-263	T, T&R	"", T	
RC1117M25		2.5V	1A	TO-263	T, T&R	"", T	
RC1117M285		2.85V	1A	TO-263	T, T&R	"", T	
RC1117M33		3.3V	1A	TO-263	T, T&R	"", T	
RC1117M5		5V	1A	TO-263	T		
RC1117S		Adjustable	1A	SOT-223	T, T&R	"", T	
RC1117S25		2.5V	1A	SOT-223	T, T&R	"", T	
RC1117S285		2.85V	1A	SOT-223	T, T&R	"", T	
RC1117S33		3.3V	1A	SOT-223	T, T&R	"", T	
RC1117S5		5V	1A	SOT-223	T, T&R	"", T	
KA78R33TU		LDO Linear Regulator	3.3V	1A	TO-220 (F/P) 4 Leads	T	
KA78R05TU			5V	1A	TO-220 (F/P) 4 Leads	T	
KA78R08TU	8V		1A	TO-220 (F/P) 4 Leads	T		
KA78R09TU	9V		1A	TO-220 (F/P) 4 Leads	T		
KA78R12TU	12V		1A	TO-220 (F/P) 4 Leads	T		
KA78R15TU	15V		1A	TO-220 (F/P) 4 Leads	T		
KA278R33TU	LDO Linear Regulator	3.3V	2A	TO-220 (F/P) 4 Leads	T		
KA278R05TU		5V	2A	TO-220 (F/P) 4 Leads	T		
KA278R51TU		5.1V	2A	TO-220 (F/P) 4 Leads	T		
KA278R09TU		9V	2A	TO-220 (F/P) 4 Leads	T		
KA278R12TU		12V	2A	TO-220 (F/P) 4 Leads	T		
KA278RA05TU		5V Adjustable	2A	TO-220 (F/P) 4 Leads	T		

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Analog and Mixed Signal Products

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Regulators—Low Drop Out Regulators (continued)

Product	Description Voltage	Output Current	Output	Package	Packing	
					Code ¹	Suffix
RC1587M	LDO Linear Regulator	Adjustable	3A	TO-263	T, T&R	"", T
RC1587M15		1.5V	3A	TO-263	T, T&R	"", T
RC1587M33		3.3V	3A	TO-263	T, T&R	"", T
RC1587T		Adjustable	3A	TO-220	T	
RC1587T15		1.5V	3A	TO-220	T	
RC1587T33		3.3V	3A	TO-220	T	
KA378R33TU	LDO Linear Regulator	3.3V	3A	TO-220 (F/P) 4 Leads	T	
KA378R05TU		5V	3A	TO-220 (F/P) 4 Leads	T	
KA378R06TU		6V	3A	TO-220 (F/P) 4 Leads	T	
KA378R12TU		12V	3A	TO-220 (F/P) 4 Leads	T	
FAN1084MC	LDO Linear Regulator	Adjustable	4.5A	TO-263-C	T, T&R	"", T
FAN1084T		Adjustable	4.5A	TO-220	T	
RC1585M	LDO Linear Regulator	Adjustable	5A	TO-263	T, T&R	"", T
RC1585M15		1.5V	5A	TO-263	T, T&R	"", T
RC1585T		Adjustable	5A	TO-220	T	
RC1585T15		1.5V	5A	TO-220	T	
RC1584M	LDO Linear Regulator	Adjustable	7A	TO-263	T, T&R	"", T
RC1584M15		1.5V	7A	TO-263	T	
RC1584T		Adjustable	7A	TO-220	T	
RC1584T15		1.5V	7A	TO-220	T	

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Regulators

Ultra Low Drop Out Regulators

Product	Output Description	Output Voltage	Current	Package	Packing	
					Code ¹	Suffix
FAN1581M	5 Pin Adjustable/Fixed Ultra LDO Lin	Adjustable	5A	TO-263-5	T, T&R	" ", T
FAN1581M15		1.5V	5A	TO263-5	T, T&R	" ", T
FAN1581M25		2.5V	5A	TO263-5	T, T&R	" ", T
FAN1581T		Adjustable	5A	TO-220-5	T	
FAN1581T15		1.5V	5A	TO-220-5	T	
FAN1581T25		2.5V	5A	TO-220-5	T	
FAN1582M	5 Pin Adjustable/Fixed Ultra LDO Lin	Adjustable	3A	TO-263-5	T, T&R	" ", T
FAN1582M15		1.5V	3A	TO263-5	T, T&R	" ", T
FAN1582M25		2.5V	3A	TO263-5	T, T&R	" ", T
FAN1582T		Adjustable	3A	TO-220-5	T	
FAN1582T15		1.5V	3A	TO-220-5	T	
FAN1582T25		2.5V	3A	TO-220-5	T	
FAN1583M	5 Pin Adjustable/Fixed Ultra LDO Lin	Adjustable	1.5A	TO-263-5	T, T&R	" ", T
FAN1583M15		1.5V	1.5A	TO263-5	T, T&R	" ", T
FAN1583M25		2.5V	1.5A	TO263-5	T, T&R	" ", T
FAN1583T		Adjustable	1.5A	TO-220-5	T	
FAN1583T15		1.5V	1.5A	TO-220-5	T	
FAN1583T25		2.5V	1.5A	TO-220-5	T	

Combination LDO Regulators

Product	Description	Output Voltage	Output Current	Package	Packing	
					Code ¹	Suffix
RC5060M	ACPI Switch Controller (5V Dual, 3.3V Dual, 3.3V SDRAM, 2.5 Rambus)			SO-20	T, T&R	" ", T

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Regulators—Switching Regulators and Controllers

Product	Description	Package	Packing	
			Code ¹	Suffix
RC4190N	Micropower Switching Regulator	PDIP-8	T	
RC4190M		SO-8	T, T&R	" ", T
RC4191N	Micropower Switching Regulator	PDIP-8	T	
RC4391N	Inverting and Step - Down Switching Regulator	PDIP-8	T	
RC4391M		SO-8	T, T&R	" ", T
RC5037M	Simple Adjustable Switching Regulator Controller	SO-8	T, T&R	" ", T
RC5041M	4 Bit Programmable DC-DC Controller	SO-16	T, T&R	" ", T
RC5051M	5 Bit Programmable Synchronous DC-DC Controller	SO-20	T, T&R	" ", T
RC5052M	5 Bit Programmable Synchronous DC-DC Controller with Sense FET	SO-20	T&R	T
RC5053G	5 Bit Programmable Synchronous DC-DC Controller 300 KHz	SSOP-20		
RC5053M		SO-20	T, T&R	" ", T
RC5054AM	5 Bit Programmable Synchronous DC-DC Controller with Logic Level DAC Inputs	SO-24	T, T&R	" ", T
RC5055G	5 Bit Synchronous DC-DC Converter and Two Linear Regulator Controllers	SSOP-24		
RC5055M		SO-24	T, T&R	" ", T
RC5057M	Synchronous FET Sense DC-DC Controller	SO-16	T, T&R	" ", T
RC5058M	5 Bit Synchronous DC-DC Converter and Three Linear Regulator Controllers	SO-24	T, T&R	" ", T
RC5060M	ACPI Switch Controller (5V Dual, 3.3 V Dual, 2.5V Dual, 3.3V SDRAM)	SO-20	T, T&R	" ", T
RC5061M*	Triple 5 bit Synchronous Controller with Active Droop	SO-20	T, T&R	" ", T
RC5102M	Dual Adjustable Voltage Regulator Controllers for Vtt and Vclock	SO-8		
FAN5201*	Chemistry Independent Intelligent Battery charger	SSOP24		
FAN5230*	System Electronics Regulator for Mobile PCs	QSOP-24		
FAN5231*	CPU Voltage Regulator for Mobile PCs	SSOP-28		
FAN5091MTC*	Dual Slice DC-DC Controller 50A	TSSOP-24		
FAN5092MTC*	Dual Slice DC-DC Controller 50A	TSSOP-28		

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A = Ammo Pack

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* Advanced Information

Regulators—Switching Regulators and Controllers (continued)

Product	Description	Package	Packing	
			Code ¹	Suffix
MC34063AD [KA34063AD]	DC-DC Converter Controller	SOP-8	T, T&R	"", X
MC34063AP [KA34063A]		DIP-8	T	
KA3501	SMPS Secondary Monitoring IC	DIP-14	T	
KA3502	PC SMPS Secondary Supervisory IC	DIP-20	T	
KA3505	PC SMPS Secondary Supervisory IC	DIP-16	T	
KA3511	Intelligent Voltage Mode PWM IC	DIP-22	T	
KA3524	Voltage Mode PWM Controller	DIP-16	T	
UC3525AD [KA3525AD]	Voltage Mode PWM Controller	SOP-16	T, T&R	"", X
UC3525AN [KA3525A]		DIP-16	T	
SG3526BN [KA3526B]	Voltage Mode PWM Controller	DIP-16	T	
TL1451ACD [KA7551D]	Dual Voltage Mode PWM Controller	SOP-16	T, T&R	"", X
TL494CD [KA7500BD]	V-Mode PWM Controller, Double-Ended, 5%	SOP-16	T, T&R	"", X
TL494CN [KA7500B]		DIP-16	T	
UC3842D [KA3842BD]	Current Mode PWM Controller	SOP-14	T, T&R	"", X
UC3842N [KA3842B]		DIP-8	T	
UC3843D [KA3843BD]	Current Mode PWM Controller	SOP-14	T, T&R	"", X
UC3843N [KA3843B]		DIP-8	T	
UC3844D [KA3844BD]	Current Mode PWM Controller	SOP-14	T, T&R	"", X
UC3844N [KA3844B]		DIP-8	T	
UC3845D [KA3845BD]	Current Mode PWM Controller	SOP-14	T, T&R	"", X
UC3845N [KA3845B]		DIP-8	T	
UC3842AD [KA3882CD]	Current Mode PWM Controller	SOP-8	T, T&R	"", X
UC3842AN [KA3882C]		DIP-8	T	
UC3843AD [KA3883CD]	Current Mode PWM Controller	SOP-8	T, T&R	"", X
UC3843AN [KA3883C]		DIP-8	T	
UC3846N [KA3846]	Current Mode PWM Controller, Double-Ended	DIP-16	T	
KA7551	Dual PWM Controller	DIP-16	T	
KA7577	High Performance PWM Controller	DIP-16	T	
KA7577D		SOP-20	T	
KA7500C	Voltage Mode PWM Controller, 2%	DIP-16	T	
KA7500CD		SOP-16	T	

Note1 Packing Code:

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Analog and Mixed Signal Products

Selection Guide

Timers

Product	Description	Package	Packing	
			Code ¹	Suffix
LM555CN [NE555N] [KA555]	Timer, Single	DIP-8	T	
LM555CM [KA555D]		SOP-8	T, T&R	"", X
KA555I		DIP-8	T	
KA555ID		SOP-8	T, T&R	"", TF
LM556CN [KA556]	Timer, Dual	DIP-14	T	
KA556I		DIP-14	T	"", TF
KA558B	Timer, Quad	DIP-16	T	
KA558BD		SOP-16	T, T&R	"", TF

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Power Factor Controllers

Product	Description	Package	Packing	
			Code ¹	Suffix
KA7525B	PFC Controller	DIP-8	T	
KA7525BD		SOP-8	T, T&R	" ", TF
KA7526	PFC Controller	DIP-8	T	
KA7526D		SOP-8	T, T&R	" ", TF

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Electronic Ballast Controllers

Product	Description	Package	Packing	
			Code ¹	Suffix
KA7540D	Dimming Ballast Control IC	SOP-8	T, T&R	"", TF
KA7541D	ElectronicBallast Controller	SOP-8	T, T&R	"", TF
KA7543D	Feedback Dimming Ballast Controller	SOP-8	T	

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Voltage Detectors

Product	Description	Package	Packing	
			Code ¹	Suffix
KA75250Z	Voltage Detector (2.5V)	T0-92	B, T&R, A	" ", TF, TA
KA75270Z	Voltage Detector (2.7V)	T0-92	B, T&R, A	" ", TF, TA
KA75290Z	Voltage Detector (2.9V)	T0-92	B, T&R, A	" ", TF, TA
KA75310Z	Voltage Detector (3.1V)	T0-92	B, T&R, A	" ", TF, TA
KA75330Z	Voltage Detector (3.3V)	T0-92	B, T&R, A	" ", TF, TA
KA75360Z	Voltage Detector (3.6V)	T0-92	B, T&R, A	" ", TF, TA
KA75390Z	Voltage Detector (3.9V)	T0-92	B, T&R, A	" ", TF, TA
KA75420Z	Voltage Detector (4.2V)	T0-92	B, T&R, A	" ", TF, TA
KA75450Z	Voltage Detector (4.5V)	T0-92	B, T&R, A	" ", TF, TA
KA75390M	Voltage Detector (3.9V)	SOT-89	T&R	TF

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IGBT Gate Drivers

Product	Description	Package	Packing	
			Code ¹	Suffix
KA3160	IGBT gate driver with protection	DIP-8	T	
KA3161	IGBT gate driver with protection	DIP-8	T	
KA3162	IGBT gate driver with protection	8-SIP	T	

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Motor Drivers—Automotive, Camera, Compact Disk Player, CD-ROM

Product	Description	Package	Packing	
			Code ¹	Suffix
Automotive				
KA3902	DC Motor PWM Driver	14-DIP	T	
KA3903	Car Window Motor Driver	16-DIP	T	
KA3904	Car Antenna Motor Driver	14-DIP	T	
Camera				
KA3050	1 Chip Camera IC	48-QFP-1010E	Q	
KA7405D	2 Channel DC Motor Driver	22-SOP	T, T&R "", TF	
KA7406	2Channel DC+AE/AF Motor Driver	48-QFP-1010E	Q	
Compact Disk Player				
KA3030D	6 Channel Motor Driver	28-SSOPH-375	T, T&R "", TF	
KA3031	6 Channel Motor Driver	48-QFPH-1414	Q	
KA3032	5 Channel Motor Driver	48-QFP-1010E	Q	
KA3034*	6 Channel Motor Driver	48-QFP-1010E	Q	
KA3036*	6 Channel Motor Driver	48-QFPH-1414	Q	
KA3037*	7 Channel Motor Driver	48-QFPH-1414	Q	
KA3038	4 Channel Motor Driver	44-QFP-1010B	Q	
KA9258BD	4 Channel Motor Driver	28-SSOPH-375	T, T&R "", TF	
KA9259BD	5 Channel Motor Driver	28-SSOPH-375	T, T&R "", TF	
KA9260D	5 Channel Motor Driver	28-SSOPH-375	T, T&R "", TF	
CD-ROM				
KA3012D	4 Channel Motor Driver	28-SSOPH-375	T, T&R "", TF	
KA3014	Spindle+ 4 Channel Motor Driver	48-QFPH-1414	Q	
KA3016D	Spindle Motor Driver	28-SSOPH-375	T, T&R "", TF	
KA3017	Spindle+ 4 Channel Motor Driver	48-QFPH-1414	Q	
KA3018D2	3 Channel Motor Driver	28-SSOPH-300	T, T&R "", TF	
KA3019D2	4 Channel Motor Driver	28-SSOPH-300	T, T&R "", TF	
KA3020D	Spindle Motor Driver	28-SSOPH-375	T, T&R "", TF	
KA3021D	4 Channel Motor Driver	28-SSOPH-375	T, T&R "", TF	
KA3022D	4 Channel Motor Driver	28-SSOPH-375	T, T&R "", TF	
KA3023D	Spindle Motor Driver	28-SSOPH-375	T, T&R "", TF	
KA3024D	4 Channel Motor Driver	28-SSOPH-375	T, T&R "", TF	
KA3025D*	Spindle+ 5Channel Motor Driver	48-QFPH-1414	Q	
KA3026D	4 Channel Motor Driver	28-SSOPH-375	T, T&R "", TF	
KA3027D2	4 Channel Motor Driver	28-SSOPH-300	T, T&R "", TF	
KA3028*	Spindle+ 4Channel with Input Op Amp	48-QFPH-1414	Q	

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- * Advanced Information

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Motor Drivers—Floppy Disk Drive, Hard Disk Drive, VCR

Product	Description	Package	Packing	
			Code ¹	Suffix
Floppy Disk Drive				
KA2820D	5.25" Step Motor Driver	20-SOP-375	T, T&R	"", TF
KA2821D	3.5" Step Motor Driver	20-SOP-300	T, T&R	"", TF
KA2822D	3.5" Spindle Motor Driver	28-SSOPH-375	T, T&R	"", TF
KA3100D	3.5" Step Motor Driver	16-SOP	T, T&R	"", TF
Hard Disk Drive				
KA2811C	Spindle+VCM Motor Driver	48-QFPH-1414	Q	
KA3120	Spindle+VCM Motor Driver	48-QFPH-1414	Q	
KA3121	Spindle+VCM Motor Driver	48-QFPH-1414	Q	
VCR				
KA3082B	DC Motor Driver	10-SIP	T	
KA3084D	Drum Motor Driver	22-SOP	T, T&R	"", TF
KA8301-L	DC Motor Driver	10-SIPH-B	T	
KA8306	1.5 Channel DC Motor Driver	10-SIPH-B	T	
KA8328CD	Drum Motor Driver	20-SOP-300	T, T&R	"", TF
KA3085	High Speed Capstan Motor Driver	36-SSOPH	T	

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Offline Power Switching (SPS)

Part Number	Application	I _{peak} (A)	P _{max} (W)	F _{opr} (KHz)	R _{DS(on)} Max (Ω)	Package
650V Line-Up						
KA5L0165RN	Charger	0.6	10	50	10 (I _d =0.5A)	8-DIP
KA5M0165RN		0.6	10	70	10 (I _d =0.5A)	8-DIP
KA5H0165RN		0.6	10	100	10 (I _d =0.5A)	8-DIP
KA1H0165RN		0.6	10	100	10 (I _d =0.5A)	8-DIP
KA1H0165R	Charger & Auxiliary power	0.6	13	100	10 (I _d =0.5A)	TO-220F-4L
KA5L0165R		0.6	26	50	6 (I _d =1.0A)	TO-220F-4L
KA5M0165R		0.6	26	70	6 (I _d =1.0A)	TO-220F-4L
KA5H0165R		0.6	26	100	6 (I _d =1.0A)	TO-220F-4L
KA5L0265R	Charger & Auxiliary power for PC & monitor	1.2	26	50	6 (I _d =1.0A)	TO-220F-4L
KA1M0265R		1.2	26	70	6 (I _d =1.0A)	TO-220F-4L
KA5M0265R		1.2	26	70	6 (I _d =1.0A)	TO-220F-4L
KA5H0265R		1.2	26	100	6 (I _d =1.0A)	TO-220F-4L
KA1H0265R		1.2	26	100	6 (I _d =1.0A)	TO-220F-4L
KA1L0365R	VCR/SVR USB	2.15	47	50	4.5 (I _d =1.5A)	TO-220F-4L
KA1M0365R		2.15	47	70	4.5 (I _d =1.5A)	TO-220F-4L
KA1H0365R		2.15	47	100	4.5 (I _d =1.5A)	TO-220F-4L
KA1M0565R	Adaptor	3.5	77	70	2.2 (I _d =3.5A)	TO-220F-4L
KA1H0565R	SMPS	3.5	123	100	2.2 (I _d =3.5A)	TO-220F-4L
KA1M0765R		5	176	70	1.6 (I _d =5.0A)	TO-3P-5L
KA1M0965R		6	211	70	1.2 (I _d =6.0A)	TO-3P-5L
KA2S0765	Monitor	5	110	20~150	1.6 (I _d =5.0A)	TO-3P-5L
KA2S0965		6	132	20~150	1.2 (I _d =6.0A)	TO-3P-5L
KA2S09655		5	120	20~150	1.2 (I _d =6.0A)	TO-3P-5L
KA2S1265		8	176	20~150	0.8 (I _d =8.0A)	TO-3P-5L
KA3S0765RF	CTV	5	110	20~150	1.6 (I _d =5.0A)	TO-3PF-5L
KA3S0965RF		6	140	20~150	1.2 (I _d =6.0A)	TO-3PF-5L
KA3S1265R		8	200	20~150	0.8 (I _d =8.0A)	TO-3P-5L
KA3S1265RF		8	200	20~150	0.8 (I _d =8.0A)	TO-3PF-5L
KA5H0165R**	Charger	0.6	12	100	10 (I _d =0.5A)	TO-220F-4L
KA5M0265R**		1.2	25	70	6 (I _d =1.0A)	TO-220F-4L
KA5M0765RC**	SMPS	5	150	70	1.6 (I _d =5.0A)	TO-220-5L
KA5Q0765RT**	CTV	5	110	20~150	1.6 (I _d =5.0A)	TO-220F-5L
KA5Q0965RF**		6	140	20~150	1.2 (I _d =6.0A)	TO-3PF-5L
KA5Q1265RF**		8	200	20~150	0.8 (I _d =8.0A)	TO-3PF-5L
KA5S0765C**		Monitor	5	110	20~150	1.6 (I _d =5.0A)
KA5S0965**	6		140	20~150	1.2 (I _d =6.0A)	TO-3P-5L
KA5S1265**	8		200	20~150	0.8 (I _d =8.0A)	TO-3P-5L

** Advance information

Analog and Mixed Signal Products

Selection Guide

Offline Power Switching (SPS) (continued)

Part Number	Application	I _{peak} (A)	P _{max} (W)	F _{opr} (KHz)	R _{DS(on)} Max (Ω)	Package
800V Line-Up						
KA1M0280R	Charger & Auxiliary power for PC & monitor	1.2	26	70	7.0 (I _d =1.0A)	TO-220F-4L
KA1M0280RB		1.2	26	70	7.0 (I _d =1.0A)	TO-220F-4L
KA1H0280R		1.2	26	100	7.0 (I _d =1.0A)	TO-220F-4L
KA1H0280RB		1.2	26	100	7.0 (I _d =1.0A)	TO-220F-4L
KA1L0380		2.1	47	50	5.0 (I _d =1.5A)	TO-220F-4L
KA1L0380RB	VCR/SVR	2.15	47	50	5.0 (I _d =1.5A)	TO-220F-4L
KA5L0380R		2.15	47	50	5.0 (I _d =1.5A)	TO-220F-4L
KA1M0380		2.15	47	70	5.0 (I _d =1.5A)	TO-220F-4L
KA1M0380R		2.15	47	70	5.0 (I _d =1.5A)	TO-220F-4L
KA1M0380RB		2.15	47	70	5.0 (I _d =1.5A)	TO-220F-4L
KA1H0380R	VCD/DVD	2.15	47	100	5.0 (I _d =1.5A)	TO-220F-4L
KA1H0380RB		2.15	47	100	5.0 (I _d =1.5A)	TO-220F-4L
KA1M0680B	Adaptor	4	88	70	2.0 (I _d =4.0A)	TO-3P-5L
KA1M0680RB		4	88	70	2.0 (I _d =4.0A)	TO-3P-5L
KA1M0880	SMPS	5	176	70	1.5 (I _d =5.0A)	TO-3P-5L
KA1M0880B		5	180	70	1.5 (I _d =5.0A)	TO-3P-5L
KA2S0680	Monitor	4	88	20~150	2.0 (I _d =4.0A)	TO-3P-5L
KA2S0680B		4	88	20~150	2.0 (I _d =4.0A)	TO-3P-5L
KA2S0880		5	110	20~150	1.5 (I _d =5.0A)	TO-3P-5L
KA2S0880B		5	110	20~150	1.5 (I _d =5.0A)	TO-3P-5L
KA3S0680RB		CTV	4	117	20~150	2.0 (I _d =4.0A)
KA3S0680RFB	4		117	20~150	2.0 (I _d =4.0A)	TO-3PF-5L
KA3S0880RB	5		146	20~150	1.5 (I _d =5.0A)	TO-3P-5L
KA3S0880RFB	5		146	20~150	1.5 (I _d =5.0A)	TO-3PF-5L
KA5Q0680RF**	4		117	20~150	2.0 (I _d =4.0A)	TO-3PF-5L
KA5Q0880RF**	5		146	20~150	1.5 (I _d =5.0A)	TO-3PF-5L

** Advance information

Special Functions—Audio, Analog Video, Clock ICs, Automatic Test Equipment, Line Driver/Receiver, Ground Fault Interrupters

Product	Description	Package	Packing	
			Code ¹	Suffix
Audio				
RC4861M	1/2W Audio Power Amplifier with Shutdown	SO-8	T, T&R	" ", X
Analog Video				
RC2211AN	FSK Demodulator / Tone Decoder	PDIP-14	T	
RC2211AM	FSK Demodulator / Tone Decoder	SO-14	T, T&R	" ", T
RC2798G	Integrated QAM IF Downconverter	TSSOP-20	T, T&R	" ", T
RC4152N	Voltage-to- Frequency Converter	PDIP-8	T	
RC4152M	Voltage-to- Frequency Converter	SO-8	T, T&R	" ", T
RC4200AN	Analog Multiplier	PDIP-8	T	
RC4200AM		SO-8	T, T&R	" ", T
RC4200N		PDIP-8	T	
RC4200M		SO-8	T, T&R	" ", T
RC6302M	Dual Video Amplifiers	SO-8	T	
RC6303M	Triple Video Amplifier with Separate Enable Inputs	SO-16	T	
RC6333M	Triple Video Amplifiers	SO-14	T	
RC6334M	Quad Video Amplifiers	SO-14	T, T&R	" ", T
Clock ICs				
RC7101**	Low Skew Buffers 66/100MHz for SDRAM Clock Buffers	SSOP-48		TBD
RC7105**	Clock Buffer/Drivers	SO-28		
RC7108**	100/133 Spread Spectrum Clock and Buffers for Whitney based Motherboards	SSOP-48		TBD
RC7144**	66/100/133 Spread Spectrum Clock for Pentium II based Motherboards	SSOP-48		TBD
RC7195**	66/100/133 Spread Spectrum Clock for Whitney and Camino based Motherboards	SSOP-48		TBD
Automatic Test Equipment				
RC7352QA	Parametric Measurement Unit	PLCC-28		
Line Driver/Receiver				
RM3182AS	ARINC 429 Differential Line Driver	SBDIP-16		
RM3283D	Dual ARINC 429 Line Receiver	CDIP-20		
Ground Fault Interrupters				
LM1851N	Ground Fault Interrupter	PDIP -8	T	
LM1851M		SO-8	T	
RV4140AN	Low Power 2- Wire Ground Fault Interrupter Controller	PDIP -8	T	
RV4140AM		SO-8	T, T&R	" ", T
RV4141AN	Low Power Ground Fault Interrupter	PDIP -8	T	
RV4141AM		SO-8	T, T&R	" ", T
RV4145AN	Low Power Ground Fault Interrupter	PDIP -8	T	
RV4145AM		SO-8	T, T&R	" ", T
KA2807	Ground Fault Interrupter	DIP-8	T	

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 ** Pre Production

Analog and Mixed Signal Products

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Special Functions—Miscellaneous

Product	Description	Package	Packing	
			Code ¹	Suffix
Miscellaneous				
FMS2701QSC	Temperature and Supply Voltage Monitor	QSOP-16	T,T&R	" ", "-T"
FMS2704Q1C*	Fan, Voltage, and Temperature Monitor for Servers	TSSOP-24	T, T&R	" ", "-T"
KA2142A	Vertical output IC	10-SIPH	T	
KA2803B	Earth Leakage Detector	DIP-8	T	
KA33V	Voltage Stabilizer	TO-92	T&R	
KA331	Voltage-to-Frequency Converter	DIP-8	T	
KA7562D	Battery Charger Controller	SOP-8	T, T&R	" ", TF

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* Advanced Information

Vertical Market—Desktop Computing

LDOs and Ultra LDOs for Vclock, Vrambus, Vsdram, Vtt termination, Vagp, Vpci, and other.

Product	Description	Output Voltage	Output Current	Package	Packing	
					Code ¹	Suffix
LM431ACM [TL431CD] [KA431D]	Reference, Adjustable, 2%	2.5 - 36V	1 - 100mA	SOP-8	T, T&R	"", X
LM431ACZ [TL431CLP] [KA431Z]	2%	2.5 - 36V	1 - 100mA	TO-92	B, T&R, A	"", X, XA
TL431CP [KA431]	2%	2.5 - 36V	1 - 100mA	DIP-8	T	
LM431BCM [TL431ACD] [KA431AD]	1%	2.5 - 36V	1 - 100mA	SOP-8	T, T&R	"", X
LM431BCZ [TL431ACLP] [KA431AZ]	1%	2.5 - 36V	1 - 100mA	TO-92	B, T&R, A	"", X, XA
LM431CCZ [KA431LZ]	0.5%	2.5 - 36V	1 - 100mA	TO-92	B, T&R, A	"", X, XA
RC431AM	Low-Voltage Adjustable Precision	1.24 - 12V	0.1 - 15mA	SOT-23-5	T, T&R	"", T
RC431AT	Shunt Regulator/Reference	1.24 - 12V	0.1 - 15mA	TO-92	T	
RC1616M	LDO Linear Regulator	Adjustable	0.5A	TO-263	T&R	T
RC1616M25		2.5V	0.5A	TO-263	T&R	T
RC1616M285		2.85V	0.5A	TO-263	T&R	T
RC1616M33		3.3V	0.5A	TO-263	T&R	T
RC1616M5		5V	0.5A	TO-263	T&R	T
RC1616S		Adjustable	0.5A	SOT-223	T, T&R	"", T
RC1616S25		2.5V	0.5A	SOT-223	T&R	T
RC1616S285		2.85V	0.5A	SOT-223	T&R	T
RC1616S33		3.3V	0.5A	SOT-223	T, T&R	"", T
RC1117DT	LDO Linear Regulator	Adjustable	1A	DPAK	T&R	T
RC1117M		Adjustable	1A	TO-263	T, T&R	"", T
RC1117M25		2.5V	1A	TO-263	T, T&R	"", T
RC1117M285		2.85V	1A	TO-263	T, T&R	"", T
RC1117M33		3.3V	1A	TO-263	T, T&R	"", T
RC1117M5		5V	1A	TO-263	T	
RC1117S		Adjustable	1A	SOT-223	T, T&R	"", T
RC1117S25		2.5V	1A	SOT-223	T, T&R	"", T
RC1117S285		2.85V	1A	SOT-223	T, T&R	"", T
RC1117S33		3.3V	1A	SOT-223	T, T&R	"", T
RC1117S5		5V	1A	SOT-223	T, T&R	"", T
RC1587M	LDO Linear Regulator	Adjustable	3A	TO-263	T, T&R	"", T
RC1587M15		1.5V	3A	TO-263	T, T&R	"", T
RC1587M33		3.3V	3A	TO-263	T, T&R	"", T
RC1587T		Adjustable	3A	TO-220	T	
RC1587T15		1.5V	3A	TO-220	T	
RC1587T33		3.3V	3A	TO-220	T	
FAN1084MC	LDO Linear Regulator	Adjustable	4.5A	TO-263-C	T, T&R	"", T
FAN1084T		Adjustable	4.5A	TO-220	T	

Note 1 Packing Code:

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- A = Ammo Pack
- M = T&R for DPAK at 90°

Analog and Mixed Signal Products

Selection Guide

Vertical Market—Desktop Computing (continued)

Product	Description	Output Voltage	Output Current	Package	Packing	
					Code ¹	Suffix
RC1585M	LDO Linear Regulator for Vtt Termination	Adjustable	5A	TO-263	T, T&R	"", T
RC1585M15		1.5V	5A	TO-263	T, T&R	"", T
RC1585T		Adjustable	5A	TO-220	T	
RC1585T15		1.5V	5A	TO-220	T	
RC1584M	LDO Linear Regulator for Vtt Termination	Adjustable	7A	TO-263	T, T&R	"", T
RC1584M15		1.5V	7A	TO-263	T	
RC1584T		Adjustable	7A	TO-220	T	
RC1584T15		1.5V	7A	TO-220	T	
RC2951M	Micropower LDO Voltage Regulator	Adjustable	0.1A	S0-8	T	
RC2951M33		3.3V	0.1A	S0-8	T	
FAN1581M	5 Pin Adjustable/Fixed Ultra LDO Linear Regulator		5A	TO-263-5	T, T&R	"", T
FAN1581T			5A	TO-220	T	
FAN1582M	5 Pin Adjustable/Fixed Ultra LDO Linear Regulator		3A	TO-263-5	T, T&R	"", T
FAN1582T			3A	TO-220	T	
FAN1583M	5 Pin Adjustable/Fixed Ultra LDO Linear Regulator		1.5A	TO-263-5	T, T&R	"", T
FAN1583T			1.5A	TO-220	T	
Willamette and K7 Processors						
FAN5091MTC**	Dual Slice DC-DC Controller 50A 24 Pin			TSSOP-24		
FAN5092MTC**	Dual Slice DC-DC Controller 50A 28 Pin			TSSOP-28		
Intel's Chip Set and Via, Sis, ALI, SMCS, Reliance Chip Sets						
FMS2701QSC	Temperature and Supply Voltage Monitor			QSOP-16	T, T&R	"", T
RC5058M	Combo: 5 Bit Synchronous Controller for Pentium III's, linear regulator controllers for Vtt, Vclock, Vnorthbridge or VAGP			S0-24	T, T&R	"", T
RC5060M	ACPI Switch Controller (5V Dual, 3.3 V Dual, 3.3V SDRAM) 2.5V Rambus			S0-20	T, T&R	"", T
FMS2701QSC	Temperature and Supply Voltage Monitor			QSOP-16	T, T&R	"", T
RC5058M	Combo: 5 Bit Synchronous Controller for Pentium III's, linear regulator controllers for Vtt, Vclock, Vnorthbridge or VAGP			S0-24	T, T&R	"", T
RC5060M	ACPI Switch Controller (5V Dual, 3.3 V Dual, 3.3V SDRAM, 2.5V Rambus)			S0-20	T, T&R	"", T
4 Bit Programmable Switching Regulators						
RC5041M	DC-DC Converter for Pentium P55C, K6 and 6x86MX (m2) Processors			S0-16	T, T&R	"", T

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** Pre Production

Vertical Market—Desktop Computing (continued)

Product	Description	Package	Packing	
			Code ¹	Suffix
5 Bit Programmable Switching Regulators				
RC5051M	Synchronous DC-DC Controller for Pentium II Microprocessors	SO-20	T, T&R	"", T
RC5052M	Synchronous FET Sense DC-DC Controller for Pentium-II and Pentium-III Microprocessors	SO-20	T&R	T
RC5053G	300KHz Synchronous DC-DC Controller for Pentium II Microprocessor	SSOP-20		
RC5053M		SO-20	T, T&R	"", T
RC5054AM	Synchronous DC-DC Controller for Pentium II uP's with Logic Level DAC Inputs	SO-24	T, T&R	"", T
RC5057M	Synchronous FET Sense DC-DC Controller for Pentium II and Pentium-III Microprocessors	SO-16	T, T&R	"", T
Combos				
RC5037M	Adjustable Voltage Regulator Controller for X86, ARM and RISC microprocessors	SO-8	T, T&R	"", T
RC5055G	Triple: 5 Bit Synchronous Controller for Pentium II uP's, Vtt and Clock linear Regulators	SSOP-24		
RC5055M		SO-24	T, T&R	"", T
RC5060M	ACPI Switch Controller (5V Dual, 3.3V Dual, 2.5V Dual, 3.3V SDRAM	SO-20	T, T&R	"", T
RC5061M*	Triple 5 bit synchronous Controller with Active Droop for Pentium III uP's, Linear Regulator Controllers for Vtt, and Vclock	SO-20	T, T&R	"", T
RC5102M	Dual Adjustable Voltage Regulator Controllers for Vtt and Vclock	SO-8		
Motherboard Clocks and Buffers				
RC7101**	Low Skew Buffers 66/100MHz for SDRAM Clock Buffers	SSOP-48		
RC7105**	Clock Buffer/Drivers	SO-28		
RC7108**	100/133 Spread Spectrum Clock and Buffers for Intel based Motherboards	SSOP-48		
RC7144**	66/100/133 Spread Spectrum Clock for Pentium II based Motherboards	SSOP-48		
FMS7209	66/100/133 Spread Spectrum Clock for Intel based Motherboards	SSOP-48		
System Solutions				
Option 1	RC5051/2/3/4 (CPU) + RC5037 (V I/O) + RC5102 (Vtt, V clock)			
Option 2	RC5055 (CPU, Vtt, V clock) + RC5037 (V I/O)			
Option 3	RC5055 (CPU, Vtt, V clock) + ATX Power Supply			
Option 4	RC5055 (CPU, Vtt V clock) + RC5037 or RC1587 (VAGP) + RC1587 (3.3V) + RC1587 (Vmemory) + RC1587 (Vnorthbridge)			
Option 5	RC5055 (cpu, Vtt Vclock) + RC1587 (3.3 V Dual) + RC1587 (Vnorthbridge)			
Option 6	RC5057 (Cpu) + RC5037+ RC1587+RC1587 (Vnorthbridge)			
Option 7	RC5058 (Cpu, Vtt, Vclock, Vnorthbridge or Vagp) + RC5060 (Vsdrum, Vrambus, 5Vdual, 3.3Vdual)			
Option 8	RC5061 (Cpu, Vclock, Vnorthbridge orVagp) + RC5060 (Vsdrum, Vrambus, 5Vdual, 3.3Vdual)			
Demo Boards and Voltage Regulator Modules (VRMs) for feasibility and Demo only				
RCB001	4 Bit VRM for Pentium Pro			40 Pin connector
RCB002	VRM for Pentium P55C and K6 tm Processors			40 Pin connector
RCB004	5 Bit VRM for Pentium Pro and Pentium II Processors			40 Pin connector
RCB005-K	5 Bit VRM for Pentium II Klamath Processors, for 5V Input			40 Pin connector
RCB006-K	5 Bit VRM for Pentium Pro and PII Processors, For 12V Input			40 Pin connector
RC5057-Demo	Klamath, Deschutes, katmai, Mendocino, Coppermine, and K6 processors			PCB Assembly
RC5058-Demo	Katmai, Mendocino, Coppermine, Tanner, Cascades, and K6 processors			PCB Assembly
RC5060-Demo	Katmai, Mendocino, Coppermine, Tanner, Cascades, and K6 processors			PCB Assembly
RC5061-Demo	Katmai, Mendocino, Coppermine, and K6 processors			PCB Assembly
RC5052-Demo	AMD-K7 42A demoboard			PCB Assembly
RC5057-Demo	AMD-K7 42A demoboard			PCB Assembly

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 ** Pre Production
 * Advanced Information

Vertical Market—Mobile Computing

Product	Description	Output Voltage	Output Current	Package	Packing	
					Code ¹	Suffix
Mobile Computing						
FAN5201*	Chemistry Independent Intelligent Battery charger			SSOP24		
FAN5230*	System Electronics Regulator for Mobile PCs			QSOP-24		
FAN5231*	CPU Voltage Regulator for Mobile PCs			SSOP-28		
RC431AM	Low-Voltage Adjustable Precision Shunt Regulator/Reference	1.24 - 12V	0.1 - 15mA	SOT-23-5		
RC431AT		1.24 - 12V	0.1 - 15mA	TO-92		
Application Bulletins						
AB-8	Selection of MOSFETs in switch mode DC-DC converters					
AB-9	Suppressing MOSFETs Gate Ringing in Converters: Selection of Gate Resistors					
AB-10	Substituting the RC5051 for the RC5050					
AB-11	PC Board Layout Checklist for DC-DC Converters					
AB-12	Insight into Inductor Current					
AB-13	Method and Advantages of Synchronizing Two RC5051 Converters					
AB-14	Details of Output Capacitor Selection for Pentium II Processor Converters using the RC5051					
AB-15	Using Surface Mount Power MOSFETs in Processor Power Supplies					
AB-16	Designing the Input Filter for a Pentium II Processor Converter					
AB-17	Adding an Over-voltage Crowbar to an RC5051 Converter: Design and Analysis					
AB-18	Using the RC5051 for a Katmai Motherboard Design					
AB-19	Layout Guidelines for the RC7100 Motherboard System Clock					
AB-20	Optimum Current Sensing techniques in CPU Converters					
AB-23	1A 3.3V Converter with High Efficiency and Small Foot Print					
Application Notes						
AN-42	Implementing the RC5040 and RC5042 DC-DC Converters on Pentium-Pro Motherboards					
AN-50	Implementing the RC5050 and RC5051 DC-DC Converters on Pentium-Pro Motherboards					
AN-53	Implementing the RC5051 DC-DC Converter on Pentium II Motherboards					
AN-56	Total Power Conversion Solution (RC5055) for Pentium II Motherboards					
AN-57	Third Generation Power Conversion solution (RC5052/RC5057) for Pentium II/III Motherboards					
Application Briefs						
5051appl.xls	RC5051 Converter Design Template; RC5051 DC-DC Converter Tool					
5051appl.doc	RC5051 Application Brief; RC5051 DC-DC Converter Application Information					

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- * Advanced Information

Cross Reference Guide

Analog Devices	Fairchild	Description
AD539*	RC4200	Analog Multiplier
ADV7120	TMC3503	Triple Video D/A Converter, 8 bit, 80 Msps
ADV7121	TMC3003	Triple Video D/D Converter, 10 bit, 80 Msps
ADV7122	TMC3003	Triple Video D/D Converter, 10 bit, 80 Msps
ADV775	TMC1175A	8 bit Analog to Digital Converter
ADVF32	RC4152	V-F Converter
Hitachi	Fairchild	Description
HA13421*	KA2820D	5.25" Step Motor Driver
HA13475*	KA2821D	3.5" Step Motor Driver
HA13511*	KA2822D	Spindle Motor Driver
HA13561*	KA2811C	Spindle+VCM Motor Driver
Linear Technology	Fairchild	Description
LM311	LM311	Voltage Comparator
LM339	LM339	Single Supply Quad Comparator
LT1117	KA78RH33R	Low Drop Out, 3.3 V, 0.8 A
LT1117	KA78R33TU	Low Drop Out, 3.3 V, 1 A
LT1117*	RC1117	1A Linear Reg ADJ/Fixed
LT1117CM	RC1117M	1A LDO Linear Regulator
LT1117CM-2.85	RC1117M285	1A LDO Linear Regulator
LT1117CM-3.3	RC1117M33	1A LDO Linear Regulator
LT1117CM-5	RC1117M5	1A LDO Linear Regulator
LT1117CST	RC1117S	1A LDO Linear Regulator
LT1117CST-2.85	RC1117S285	1A LDO Linear Regulator
LT1117CST-3.3	RC1117S33	1A LDO Linear Regulator
LT1117CST-5	RC1117S5	1A LDO Linear Regulator
LT1121	RC2951	Adjustable Micropower Voltage Regulator
LT1584*	RC1584	7A Adjustable/Fixed Low Drop Out Linear Regulator
LT1585*	RC1585	5A Adjustable/Fixed Low Drop Out Linear Regulator
LT1587	RC1587	3A Adjustable/Fixed Low Drop Out Linear Regulator
LT1587CT	RC1587T	3A LDO Linear Regulator
LT1587CT-3.3	RC1587T33	3A LDO Linear Regulator
LT1585CT	RC1585T	5A LDO Linear Regulator
LT1584CT	RC1584T	7A LDO Linear Regulator
OP227	RC4227	Dual Precision Operational Amplifier
Linfinity	Fairchild	Description
LX1562IM	KA7525B	PFC Controller
SG3524	KA3524	Voltage Mode PWM Controller
SG3525ADW	UC3525AD	Voltage Mode PWM Controller
SG3525AN	UC3525AN	Voltage Mode PWM Controller
SG3526BN	SG3526BN	Voltage Mode PWM Controller

* Denotes items that are the nearest replacement

Analog and Mixed Signal Products

Cross Reference Guide

Cross Reference Guide (continued)

Logic Devices	Fairchild	Description
L10C11	TMC2011A	Programmable Shift Register
L10C23	TMC2023	Correlator
L21C11	TMC2111A	Programmable Shift Register
LF2242	TMC2242A	Half-Band Filter
LF2246	TMC2246A	Image Filter
LF2249	TMC2249A	Dual Mixer
LF2250	TMC2250A	Matrix Multiplier
LF2272	TMC2272A	Color Space Converter
LF2301	TMC2301	Image Resampling Sequencer
L2330	TMC2330A	Coordinate Transformer
L2340	TMC2340A	Digital Synthesizer
Motorola	Fairchild	Description
LF347N	LF347N	Quad Op Amp, JFET Input
LF353N	LF353N	Dual Op Amp, JFET Input
LM224D	KA224D	Quad OP AMP
LM239AN	KA239A	Quad Comparator
LM239D	KA239D	Quad Comparator
LM239N	KA239	Quad Comparator
LM248N	KA248	Quad OP AMP
LM258N	KA258	Dual OP AMP
LM2902D	LM2902M	Quad OP AMP
LM2902N	LM2902N	Quad OP AMP
LM2904D	LM2904M	Dual OP AMP
LM2904N	LM2904N	Dual OP AMP
LM293D	KA293D	Dual Comparator
LM301A	LM301A	General Purpose Operational Amplifier
LM311	LM311	Voltage Comparator
LM311D	LM311M	Single Comparator
LM311N	LM311N	Single Comparator
LM317LZ	LM317LZ	Positive Regulator, Adjustable, 0.1A
LM317T	LM317T	Positive Regulator, Adjustable, 1.0A
LM324	LM324	Single Supply Quad Operation Amplifier
LM324AD	LM324AM	Quad OP AMP
LM324AN	LM324AN	Quad OP AMP
LM324D	LM324M	Quad OP AMP
LM324N	LM324N	Quad OP AMP
LM337T	LM337T	Negative Regulator, Adjustable, 1.0A
LM339	LM339	Single Supply Quad Comparator
LM339AD	KA339AD	Quad Comparator
LM339AN	LM339AN	Quad Comparator
LM339D	LM339M	Quad Comparator
LM339N	LM339N	Quad Comparator

Cross Reference Guide (continued)

Motorola	Fairchild	Description
LM348	RC4156/RC4157	High performance Quad Operational Amplifiers
LM348M	KA348D	Quad OP AMP
LM393AN	LM393AN	Dual Comparator
LM393D	LM393M	Dual Comparator
LM393N	LM393N	Dual Comparator
LP2951	RC2951	Adjustable Micropower Voltage Regulator
LP2951CD	KA78RL00D	Micropower LDO Linear Regulator
LP2951ACD	RC2951M	Micropower LDO Linear Regulator
LP2951ACD-3.3	RC2951M33	Micropower LDO Linear Regulator
MC1458BD	LM1458M	Dual OP AMP
MC1458BP1	LM1458N	Dual OP AMP
MC1468	RC4195	Fixed +/- 15V Dual Tracking Voltage Regulator
MC1494*	RC4200	Analog Multiplier
MC3302P	KA3302	Quad Comparator
MC3303D	KA3303D	Quad OP AMP
MC3303P	KA3303	Quad OP AMP
MC3403	RC3403A	Ground Sensing Quad Operational Amplifier
MC3403	RC4136	General Performance quad 741, Operational Amplifier
MC3403D	KA3403D	Quad OP AMP
MC3403P	KA3403	Quad OP AMP
MC34063AD	MC34063AD	DC-DC Converter Controller
MC34063AP1	MC34063AP	DC-DC Converter Controller
MC4558	RC4558	Dual High-Gain Operational Amplifier
MC4558CD	MC4558CD	Dual OP AMP
MC4558CP1	MC4558CP	Dual OP AMP
MC4741	RC4741	General Purpose Operational Amplifier
MC7908CT	MC7908CT	Regulator, -8V, 1.0 A, 4%
MC7805CT	MC7805CT	Regulator, 5V, 1.0A, 4%
MC7805CT	KA7805R	Regulator, 5V, 1.0A
MC7806ACT	KA7806ATU	Regulator, 6V, 1.0A, 2%
MC7806CT	MC7806CT	Regulator, 6V, 1.0A, 4%
MC7808ACT	KA7808ATU	Regulator, 8V, 1.0A, 2%
MC7808CT	MC7808CT	Regulator, 8V, 1.0A, 4%
MC7809CDT	MC7809CDT	Regulator, 8V, 1.0A, 4%
MC7809CT	MC7809CT	Regulator, 9V, 1.0A, 4%
MC7812ACT	KA7812ATU	Regulator, 12V, 1.0A, 2%
MC7812CT	MC7812CT	Regulator, 12V, 1.0A, 4%
MC7815ACT	KA7815ATU	Regulator, 15V, 1.0A, 2%
MC7815CT	MC7815CT	Regulator, 15V, 1.0A, 4%
MC7818ACT	KA7818ATU	Regulator, 18V, 1.0A, 2%
MC7818CT	MC7818CT	Regulator, 18V, 1.0A, 4%
MC7824ACT	KA7824ATU	Regulator, 24V, 1.0A, 2%
MC7824CT	MC7824CT	Regulator, 24V, 1.0A, 4%

Analog and Mixed Signal Products

Cross Reference Guide

Cross Reference Guide (continued)

Motorola	Fairchild	Description
MC78L05ACD	MC78L05ACD	Regulator, 5V, 0.1A, 2%
MC78L05ACP	MC78L05ACP	Regulator, 5V, 0.1A, 2%
MC78L08ACD	KA78L08AD	Regulator, 8V, 0.1A, 2%
MC78L08ACP	MC78L08ACP	Regulator, 8V, 0.1A, 2%
MC78L12ACD	KA78L12AD	Regulator, 12V, 0.1A, 2%
MC78L12ACP	MC78L12ACP	Regulator, 12V, 0.1A, 2%
MC78L15ACP	MC78L15ACP	Regulator, 15V, 0.1A, 2%
MC78L18ACP	MC78L18ACP	Regulator, 18V, 0.1A, 2%
MC78L24ACP	MC78L24ACP	Regulator, 24V, 0.1A, 2%
MC78M05CT	MC78M05CT	Regulator, 5V, 0.5A, 4%
MC78M06CDT	KA78M06R	Regulator, 6V, 0.5A
MC78M06CT	MC78M06CT	Regulator, 6V, 0.5A, 4%
MC78M08CDT	MC78M08CD	Regulator, 8V, 0.5A, 4%
MC78M08CT	MC78M08CT	Regulator, 8V, 0.5A, 4%
MC78M12CDT	MC78M12CD	Regulator, 12V, 0.5A, 4%
MC78M12CT	MC78M12CT	Regulator, 12V, 0.5A, 4%
MC78M15CT	MC78M15CT	Regulator, 15V, 0.5A, 4%
MC78M18CT	MC78M18CT	Regulator, 18V, 0.5A, 4%
MC78M20CT	MC78M20CT	Regulator, 20V, 0.5A, 4%
MC78M24CT	MC78M24CT	Regulator, 24V, 0.5A, 4%
MC78M5CDT	MC78M05CD	Regulator, 5V,0.5A, 4%
MC78T05CT	MC78T05CT	Regulator, 5V, 3.0A, 4%
MC78T12CT	MC78T12CT	Regulator, 12V, 3.0A, 4%
MC78T15CT	MC78T15CT	Regulator, 15V, 3.0A, 4%
MC7905CT	MC7905CT	Regulator, -5V, 1.0 A, 4%
MC7906CT	MC7906CT	Regulator, -6V, 1.0 A, 4%
MC7912CT	MC7912CT	Regulator, -12V, 1.0 A, 4%
MC7915CT	MC7915CT	Regulator, -15V, 1.0 A, 4%
MC7918CT	MC7918CT	Regulator, -18V, 1.0 A, 4%
MC7924CT	MC7924CT	Regulator, -24V, 1.0 A, 4%
MC79L05ACP	LM79L05ACZ	Regulator, -5V, 0.1A, 2%
MC79L05ACP	MC79L05ACP	Regulator, -5V, 0.1A, 2%
MC79L08ACP	MC79L08ACP	Regulator, -8V, 0.1A, 2%
MC79L12ACP	MC79L12ACP	Regulator, -12V, 0.1A, 2%
MC79L15ACP	MC79L15ACP	Regulator, -15V, 0.1A, 2%
MC79L18ACP	MC79L18ACP	Regulator, -18V, 0.1A, 2%
MC79L24ACZ	MC79L24ACP	Regulator, -24V, 0.1A, 2%
MC79M05CT	KA79M05TU	Regulator, -5V, 0.5A
MC79M06CT	KA79M06TU	Regulator, -6V, 0.5A
MC79M08CDT	KA79M08R	Regulator, -8V, 0.5A
MC79M08CT	KA79M08TU	Regulator, -8V, 0.5A
MC79M12CDT	KA79M12R	Regulator, -12V, 0.5A
MC79M12CT	KA79M12TU	Regulator, -12V, 0.5A

Cross Reference Guide (continued)

Motorola	Fairchild	Description
MC79M15CT	KA79M15TU	Regulator, -15V, 0.5A
MC79M18CT	KA79M18TU	Regulator, -18V, 0.5A
MC79M24CT	KA79M24TU	Regulator, -24V, 0.5A
SG3525ADW	UC3525AD	Voltage Mode PWM Controller
SG3525AN	UC3525AN	Voltage Mode PWM Controller
SG3526BN	SG3526BN	Voltage Mode PWM Controller
TL431ACD	TL431ACD	Reference, Adjustable, 1%
TL431ACLP	TL431ACLP	Reference, Adjustable, 1%
TL431BCLP	TL431BCLP	Reference, Adjustable, 0.5%
TL431CD	TL431CD	Reference, Adjustable, 2%
TL431CLP	TL431CLP	Reference, Adjustable, 2%
TL431CP	TL431CP	Reference, Adjustable, 2%
UC3842AD	UC3842D	Current Mode PWM Controller
UC3842AN	UC3842N	Current Mode PWM Controller
UC3842BD1	UC3842AD	Current Mode PWM Controller
UC3842BN	UC3842AN	Current Mode PWM Controller
UC3843AD	UC3843D	Current Mode PWM Controller
UC3843AN	UC3843N	Current Mode PWM Controller
UC3843BD1	UC3843AD	Current Mode PWM Controller
UC3843BN	UC3843AN	Current Mode PWM Controller
UC3844AD	UC3844D	Current Mode PWM Controller
UC3844AN	UC3844N	Current Mode PWM Controller
National	Fairchild	Description
ADC1173	TMC1173A	Video A/D Converter, 8 bit, 15 Msps, 3V
ADC1175	TMC1175A	Video A/D Converter, 8 bit, 20 Msps
LF347N	LF347N	Quad Op Amp, JFET Input
LF351N	KF351	Single Op Amp, JFET Input
LF353N	LF353N	Dual Op Amp, JFET Input
LF442CN	KF442	Dual Op Amp, JFET Input
LM1117*	RC1117	1A Linear Reg ADJ/Fixed (2.5V, 2.85V, 3.3V, 5V)
LM1117DT-ADJ	RC1117DT	1A LDO Linear Regulator
LM1117T-ADJ (TO-220)	RC1117M (TO-263)	1A LDO Linear Regulator
LM1117T-2.85 (TO-220)	RC1117M285 (TO-263)	1A LDO Linear Regulator
LM1117T-3.3 (TO-220)	RC1117M33 (TO-263)	1A LDO Linear Regulator
LM1117T-5.0 (TO-220)	RC1117M5 (TO-263)	1A LDO Linear Regulator
LM1117MPX-ADJ	RC1117S	1A LDO Linear Regulator
LM1117MPX-2.85	RC1117S285	1A LDO Linear Regulator
LM1117MPX-3.3	RC1117S33	1A LDO Linear Regulator
LM1117MPX-5.0	RC1117S5	1A LDO Linear Regulator
LM1458CM	LM1458CM	Dual OP AMP
LM1458CN	LM1458CN	Dual OP AMP
LM331	KA331	Voltage-to-Frequency Converter

* Denotes items that are the nearest replacement

Analog and Mixed Signal Products

Cross Reference Guide

Cross Reference Guide (continued)

National	Fairchild	Description
LM1458M	LM1458M	Dual OP AMP
LM1458N	LM1458N	Dual OP AMP
LM1851	LM1851	Ground Fault Interrupter
LM201AN	KA201A	Single OP AMP
LM219M	KA219D	Dual Comparator
LM219N	KA219	Dual Comparator
LM224AN	KA224A	Quad OP AMP
LM224N	KA224	Quad OP AMP
LM239N	KA239	Quad Comparator
LM248N	KA248	Quad OP AMP
LM258N	KA258	Dual OP AMP
LM2901M	LM2901M	Quad Comparator
LM2901N	LM2901N	Quad Comparator
LM2902M	LM2902M	Quad OP AMP
LM2902N	LM2902N	Quad OP AMP
LM2903M	LM2903M	Dual Comparator
LM2903N	LM2903N	Dual Comparator
LM2904M	LM2904M	Dual OP AMP
LM2904N	LM2904N	Dual OP AMP
LM2931AZ-5.0	KA76L05Z	Regulator 5V, 0.1A
LM293AN	KA293A	Dual Comparator
LM293M	KA293D	Dual Comparator
LM293N	KA293	Dual Comparator
LM301A	LM301A	General Purpose Operational Amplifier
LM301AN	KA301A	Single OP AMP
LM311	LM311	Voltage Comparator
LM311M	LM311M	Single Comparator
LM311N	LM311N	Single Comparator
LM317HVT	KA317HVTU	Regulator, Adjustable, 1.5A (positive)
LM317LZ	LM317LZ	Positive Regulator, Adjustable, 0.1A
LM317MDT	LM317MDT	Positive Regulator, Adjustable, 0.5A
LM317T	LM317T	Positive Regulator, Adjustable, 1.0A
LM319M	KA319D	Dual Comparator
LM319N	KA319	Dual Comparator
LM324	LM324	Single Supply Quad Operational Amplifier
LM324AM	LM324AM	Quad OP AMP
LM324AN	LM324AN	Quad OP AMP
LM324M	LM324M	Quad OP AMP
LM324N	LM324N	Quad OP AMP
LM325	RC4195	Fixed +/- 15V Dual Tracking Voltage Regulator
LM3302N	KA3302	Quad Comparator
LM3303N	KA3303	Quad OP AMP
LM331	RC4152	V-F Converter

Cross Reference Guide (continued)

National	Fairchild	Description
LM336Z-2.5	LM336Z25	Programmable shunt regulator, 2.5V
LM336Z-5	LM336Z5	Programmable shunt regulator, 5V
LM337LZ	KA337LZ	Regulator, Adjustable, 0.1A (negative)
LM337T	LM337T	Negative Regulator, Adjustable, 1.0A
LM339	LM339	Single Supply Quad Comparator
LM339AM	KA339AD	Quad Comparator
LM339AN	LM339AN	Quad Comparator
LM339M	LM339M	Quad Comparator
LM339N	LM339N	Quad Comparator
LM3403	RC3403A	Ground Sensing Quad Operational Amplifier
LM3403N	KA3403	Quad OP AMP
LM348	LM348	Low Power Quad 741 Operational Amplifier
LM348	RC4156/RC4157	High Performance Quad Operational Amplifiers
LM348*	RC4741	General Purpose Operation Amplifier
LM348N	LM348N	Quad OP AMP
LM350T	LM350T	Positive Regulator, Adjustable, 3A
LM358AM	LM358AM	Dual OP AMP
LM358AN	LM358AN	Dual OP AMP
LM358M	LM358M	Dual OP AMP
LM358N	LM358N	Dual OP AMP
LM393AN	LM393AN	Dual Comparator
LM393M	LM393M	Dual Comparator
LM393N	LM393N	Dual Comparator
LM4040	RC4040	Precision Micropower Shunt Voltage Reference
LM4136	RC4136	General Performance Quad 741, Operational Amplifier
LM431ACM	LM431ACM	Reference, Adjustable, 2%
LM431ACZ	LM431ACZ	Reference, Adjustable, 2%
LM431BCM	LM431BCM	Reference, Adjustable, 1%
LM431BCZ	LM431BCZ	Reference, Adjustable, 1%
LM431CCZ	LM431CCZ	Reference, Adjustable, 0.5%
LM4861*	RC4861	1/2W Audio Power Amplifier with Shutdown
LM555CM	LM555CM	Timer, Single
LM555CN	LM555CN	Timer, Single
LM555CN	NE555N	Timer, Single
LM556CN	LM556CN	Timer, Dual
LM710CN	KA710	Single Comparator
LM723CM	KA723D	Precision Voltage Regulator
LM723CN	KA723	Precision Voltage Regulator
LM741CM	KA741D	Single OP AMP
LM741CN	LM741CN	Single OP AMP
LM7805CT	LM7805CT	Regulator, 5V, 1.0A, 4%
LM7818CT	MC7818CT	Regulator, 18V, 1.0A, 4%
LM78L05ACZ	LM78L05ACZ	Regulator, 5V, 0.1A, 2%

* Denotes items that are the nearest replacement

Analog and Mixed Signal Products

Cross Reference Guide

Cross Reference Guide (continued)

National	Fairchild	Description
LM78L06ACZ	KA78L06AZ	Regulator, 6V, 0.1A, 2%
LM78L12ACM	KA78L12AD	Regulator, 12V, 0.1A, 2%
LM78L12ACZ	LM78L12ACZ	Regulator, 12V, 0.1A, 2%
LM78M06CT	MC78M06CT	Regulator, 6V, 0.5A, 4%
LM78M08CT	MC78M08CT	Regulator, 8V, 0.5A, 4%
LM78M10CT	KA78M10TU	Regulator, 10V, 0.5A
LM78M12CT	MC78M12CT	Regulator, 12V, 0.5A, 4%
LM78M15CT	MC78M15CT	Regulator, 15V, 0.5A, 4%
LM78M18CT	MC78M18CT	Regulator, 18V, 0.5A, 4%
LM78M24CT	MC78M24CT	Regulator, 24V, 0.5A, 4%
LM7905CT	LM7905CT	Regulator, -5V, 1.0 A, 4%
LM79L12ACZ	MC79L12ACP	Regulator, -12V, 0.1A, 2%
LM79L15ACZ	MC79L15ACP	Regulator, -15V, 0.1A, 2%
LM79L5ACZ	LM79L05ACZ	Regulator, -5V, 0.1A, 2%
LM79L5ACZ	MC79L05ACP	Regulator, -5V, 0.1A, 2%
LM79M05CP	KA79M05TU	Regulator, -5V, 0.5A
LM79M12CP	KA79M12TU	Regulator, -12V, 0.5A
LM79M15CP	KA79M15TU	Regulator, -15V, 0.5A
LP2951	RC2951	Adjustable Micropower Voltage Regulator
LP2951CM	KA78RL00D	Micropower LDO Linear Regulator
LP2951CM	KA78RL00D	Micropower LDO Linear Regulator
LP2951ACM	RC2951M	Micropower LDO Linear Regulator
LP2951ACM-3.3	RC2951M33	Micropower LDO Linear Regulator
M78M5CT	LM78M05CT	Regulator, 5V, 0.5A, 4%
NE5532N	NE5532N	Dual OP AMP
UC3845AD	UC3845D	Current Mode PWM Controller
UC3845AN	UC3845N	Current Mode PWM Controller
Philips	Fairchild	Description
NE5532N	NE5532N	Dual OP AMP
μA723CN	KA723	Precision Voltage Regulator
μA723CD	KA723D	Precision Voltage Regulator
Rohm	Fairchild	Description
BA4858	KA3023D	Spindle Motor Driver
BA4869	KA3016D	Spindle Motor Driver
BA5933*	KA3018D2	3 Channel Motor Driver
BA5934*	KA3019D2	4 Channel Motor Driver
BA5936	KA3030D	6 Channel Motor Driver
BA5937	KA3021D	4 Channel Motor Driver
BA5938	KA3022D	4 Channel Motor Driver
BA5954	KA3024D	4 Channel Motor Driver

* Denotes items that are the nearest replacement

Cross Reference Guide (continued)

Sanyo	Fairchild	Description
BA5972	KA3012D	4 Channel Motor Driver
BA6209*	KA3082B	DC Motor Driver
BA6209*	KA8301-L	DC Motor Driver
BA6296	KA9258BD	4 Channel Motor Driver
BA6395	KA9259BD	5 Channel Motor Driver
BA6826*	KA8328CD	Drum Motor Driver
BA6869	KA3020D	3.5" Spindle Motor Driver
Semtech	Fairchild	Description
EZ1117ACM	RC1117M	1A LDO Linear Regulator
EZ1117ACM-2.5	RC1117M25	1A LDO Linear Regulator
EZ1117ACM-2.85	RC1117M285	1A LDO Linear Regulator
EZ1117ACM-3.3	RC1117M33	1A LDO Linear Regulator
EZ1117ACST	RC1117S	1A LDO Linear Regulator
EZ1117ACST-2.5	RC1117S25	1A LDO Linear Regulator
EZ1117ACST-2.85	RC1117S285	1A LDO Linear Regulator
EZ1117ACST-3.3	RC1117S33	1A LDO Linear Regulator
EZ1117CM	RC1117M	1A LDO Linear Regulator
EZ1117CM-2.5	RC1117M25	1A LDO Linear Regulator
EZ1117CM-2.85	RC1117M285	1A LDO Linear Regulator
EZ1117CM-3.3	RC1117M33	1A LDO Linear Regulator
EZ1117CST	RC1117S	1A LDO Linear Regulator
EZ1117CST-2.5	RC1117S25	1A LDO Linear Regulator
EZ1117CST-2.85	RC1117S285	1A LDO Linear Regulator
EZ1117CST-3.3	RC1117S33	1A LDO Linear Regulator
EZ1584CT	RC1584T	7A LDO Linear Regulator
EZ1584CT-1.5	RC1584T15	7A LDO Linear Regulator
EZ1585CM	RC1585M	5A LDO Linear Regulator
EZ1585CM-1.5	RC1585M15	5A LDO Linear Regulator
EZ1585CT	RC1585T	5A LDO Linear Regulator
EZ1585CT-1.5	RC1585T15	5A LDO Linear Regulator
EZ1587CM	RC1587M	3A LDO Linear Regulator
EZ1587CM-1.5	RC1587M15	3A LDO Linear Regulator
EZ1587CM3.3	RC1587M33	3A LDO Linear Regulator
EZ1587CT	RC1587T	3A LDO Linear Regulator
EZ1587CT-1.5	RC1587T15	3A LDO Linear Regulator
EZ1587CT3.3	RC1587T33	3A LDO Linear Regulator
LP2951CM	KA78RL00D	Micropower LDO Linear Regulator
LP2951CM	RC2951M	Micropower LDO Linear Regulator
LP2951CM-3.3	RC2951M33	Micropower LDO Linear Regulator

* Denotes items that are the nearest replacement

Analog and Mixed Signal Products

Cross Reference Guide

Cross Reference Guide (continued)

Semtech	Fairchild	Description
SC1117CM	RC1117M	1A LDO Linear Regulator
SC1117CM-2.5	RC1117M25	1A LDO Linear Regulator
SC1117CM-2.85	RC1117M285	1A LDO Linear Regulator
SC1117CM-3.3	RC1117M33	1A LDO Linear Regulator
SC1117CST	RC1117S	1A LDO Linear Regulator
SC1117CST-2.5	RC1117S25	1A LDO Linear Regulator
SC1117CST-2.85	RC1117S285	1A LDO Linear Regulator
SC1117CST-3.3	RC1117S33	1A LDO Linear Regulator
SC431CS-2	LM431ACM	Adjustable Shunt Regulator
SC431CZ-2	LM431ACZ	Adjustable Shunt Regulator
SC431CS-1	LM431BCM	Adjustable Shunt Regulator
SC431CZ-1	LM431BCZ	Adjustable Shunt Regulator
SC431CZ-.5	LM431CCZ	Adjustable Shunt Regulator
SC431SK-1*	RC431AM	Adjustable Shunt Regulator
SC431CZ-1	RC431AT	Adjustable Shunt Regulator
ST Microelectronics	Fairchild	Description
LB1614*	KA3082B	DC Motor Driver
LB1831	KA7405D	2 Channel DC Motor Driver
LB1838*	KA3100D	3.5' Step Motor Driver
LD1117	KA78R33TU	Low Drop Out, 3.3 V, 1 A
LD1117	KA78RH33R	Low Drop Out, 3.3 V, 0.8 A
LD1117DT	RC1117DT	Low Drop Out, Adjustable, 1 A
LD1117S	RC1117S	Low Drop Out, Adjustable, 1 A
LD1117S25	RC1117S25	Low Drop Out, 2.5 V, 1 A
LD1117S25C	RC1117S25	1A LDO Linear Regulator
LD1117S28	RC1117S285	Low Drop Out, 2.85 V, 1 A
LD1117S33	RC1117S33	Low Drop Out, 3.3 V, 1 A
LD1117S33C	RC1117S33	1A LDO Linear Regulator
LD1117S50	RC1117S5	Low Drop Out, 5.0 V, 1 A
LD1117S50C	RC1117S5	1A LDO Linear Regulator
LD1117V (TO-220)	RC1117M (TO-263)	1A LDO Linear Regulator
LD1117V25 (TO-220)	RC1117M25 (TO-263)	1A LDO Linear Regulator
LD1117V25C (TO-220)	RC1117M25 (TO-263)	1A LDO Linear Regulator
LD1117V28 (TO-220)	RC1117M285 (TO-263)	1A LDO Linear Regulator
LD1117V33 (TO-220)	RC1117M33 (TO-263)	1A LDO Linear Regulator
LD1117V33C (TO-220)	RC1117M33 (TO-263)	1A LDO Linear Regulator
LD1117V50 (TO-220)	RC1117M5 (TO-263)	1A LDO Linear Regulator
LD1117V50C (TO-220)	RC1117M5 (TO-263)	1A LDO Linear Regulator

* Denotes items that are the nearest replacement

Cross Reference Guide (continued)

TI	Fairchild	Description
LM301A	LM301A	General Purpose Operational Amplifier
LM311	LM311	Voltage Comparators
LM324	LM324	Single Supply Quad Operational Amplifier
LM336Z-5.0	LM336Z5	Programmable shunt regulator, 5V
LM339	LM339	Single Supply Quad Comparator
LM348	RC4156/RC4157	High performance Quad Operational Amplifiers
MC3403	RC3403A	Ground Sensing quad Operational Amplifier
MC4136	RC4136	General Performance Quad 741, Operational Amplifier
RC4558	RC4558	Dual High-Gain Operational Amplifier
THMC50	FMS2701QSC	Temp & Supply Voltage Monitor
TL1451ACN	KA7551	Dual PWM Controller
TL1451ACNS	TL1451ACM	Dual Voltage Mode PWM Controller
TL431CP	TL431CP	Reference, Adjustable, 2%
TL431ACD	LM431BCM	Reference, Adjustable, 1%
TL431ACLP	LM431BCZ	Reference, Adjustable, 1%
TL431ACLP	RC431AT	Low-Voltage Adjustable Precision Shunt Regulator/Reference
TL431CD	TL431CD	Reference, Adjustable, 2%
TL431CLP	LM431ACZ	Reference, Adjustable, 2%
TL431CD	TL431CD	Reference, Adjustable, 2%
TL431CP	TL431CP	Reference, Adjustable, 2%
TL494CD	TL494CD	V-Mode PWM Controller, Double-Ended, 5%
TL494CN	TL494CN	V-Mode PWM Controller, Double-Ended, 5%
TLC5510	TMC1175A-20	Video A/D Converter, 8 bit, 20 Msps
TLC5510	TMC1175AM7C20	8 bit 20 MSPS ADC
TLC5540	TMC1175A-40	Video A/D Converter, 8 bit, 40 Msps
TLC5540	TMC1175AM7C40	8 bit 40 MSPS ADC
TLV431A	RA031A	Low Voltage Adjustable Precision Shunt Regulator
Unitrode	Fairchild	Description
UC3524N	KA3524	Voltage Mode PWM Controller
UC3525AN	UC3525AN	Voltage Mode PWM Controller
UC3842AD8	UC3842AD	Current Mode PWM Controller
UC3842AN	UC3842AN	Current Mode PWM Controller
UC3842DW	UC3842D	Current Mode PWM Controller
UC3842N	UC3842N	Current Mode PWM Controller
UC3843AD8	UC3843AD	Current Mode PWM Controller
UC3843AN	UC3843AN	Current Mode PWM Controller
UC3843DW	UC3843D	Current Mode PWM Controller
UC3843N	UC3843N	Current Mode PWM Controller
UC3844DW	UC3844D	Current Mode PWM Controller

Analog and Mixed Signal Products

Cross Reference Guide

Cross Reference Guide (continued)

Unitrode	Fairchild	Description
UC3844N	UC3844N	Current Mode PWM Controller
UC3845DW	UC3845D	Current Mode PWM Controller
UC3845N	UC3845N	Current Mode PWM Controller
UC3846N	UC3846N	I-Mode PWM Controller, Double-Ended

Industry Standard Series

Fairchild Analog and Mixed Signal products are divided into two basic groups. The Mixed Signal Products uses the TMC prefix, and the Analog portion uses a combination of Industry Standard prefixes such as LM and MC, the RC series, and KA series. In addition, new products are being introduced with the FMS prefix for Mixed Signals and FAN for Analog products.

	Prefix	Device Number (Suffixes are optional)	Package Type	Packaging Options
Product Area	XX	XXXX	XX	XX
Examples:	LM MC	339A 78M05	N DT	XM

1. Prefix

Fairchild prefixes following common industry standards:

Linear Monolithic ICs: LM, MC, NE, SG, TL, UC

Linear BI-FET ICs: LF

2. Device Number

Suffixes:

A = Improved Electrical Specification

C = Commercial Temperature Range

Examples:

LM393AN

LM1458CN

Comparators and Op Amps with 3 digits:

First digit denotes temperature range.

1= Military -55 ~ +125 degC

2= Industrial -25 ~ +85 degC

3= Commercial 0 ~ +70 degC

LM339M

Linear Voltage Regulators:

The 78 (Positive Voltage) and 79 (Negative Voltage) series include a letter for Output Current Rating and two digits for Output Voltage

Output Current Rating:

L = 0.1A LM78L05ACZ

M = 0.5A MC78M05CT

" " = 1.0A MC7806CT

T = 3.0A MC78T15CT

Analog and Mixed Signal Products

Ordering Information

Industry Standard Series (continued)

3. Package Type

Package	Package Suffix			
	for LM, LF, NE Prefixes	for MC Prefix	for UC, SG Prefixes	for TL Prefix
SOP-8	M	D	D	D
SOP-14	M	D	D	
SOP-16	M	D	D	D
D-PAK	DT	DT		
DIP-8	N	P	N	P
DIP-14	N	P	N	
DIP-16	N	P	N	N
TO-92	Z	P		
TO-220	T	T		

4. Packing Options

Package	Packing Method	Packing Code	Device Increment	Suffix
SOP-8	Tube	T	8,100	
SOP-8	Tape & Reel	T&R	3,000	X
SOP-14	Tube	T	4,050	
SOP-14	Tape & Reel	T&R	3,000	X
SOP-16	Tube	T	4,050	
SOP-16	Tape & Reel	T&R	3,000	X
D-PAK	Tape & Reel	T&R	2,000	X
D-PAK	Tape & Reel	M*	2500*	XM*
DIP-8	Tube	T	3,000	
DIP-14	Tube	T	1,500	
DIP-16	Tube	T	1,500	
TO-92	Bulk	B	10,000	
TO-92	Tape & Reel	T	2000	X
TO-92	Ammo Pack	A	2,000	XA
TO-220	Tube	T	1,000	

*Note: In the M version of the Tape & Reel, the devices are rotated 90° to allow more devices per reel.

FAN Series

FAN is the prefix used for new analog products and follows the naming convention for the RC series.

FMS Series

FMS is the prefix used for new Video products and follows the naming convention for the TMC series.

KA Series

	Prefix	Device Number (Suffixes are optional)	Package Type	Packaging Options
Product Area	XX	XXXX	XX	XX
Examples:	LM	339A	N	
	MC	78M05	DT	XM

1. Prefix

Power Device Division uses the following prefixes:

Linear Monolithic ICs: KA

Linear BI-FET ICs: KF

2. Device Number

Suffixes:

A, B = Improved Electrical Specification

I = Industrial -25 ~ +85 degC

Examples:

KA301AD, KA3526B

KA741I

Comparators and Op Amps with 3 digits:

First digit denotes temperature range.

1= Military -55 ~ +125 degC

2= Industrial -25 ~ +85 degC

3= Commercial 0 ~ +70 degC

KA239A

KA319

Linear Voltage Regulators:

The 78 (Positive Voltage) and 79 (Negative Voltage) series include a letter for Output Current Rating and two digits for Output Voltage.

Output Current Rating:

L = 0.1A

M = 0.5A

" " = 1.0A

T = 3.0A

KA76L05Z

KA78M06R

KA7811TU

KA78T24TU

The LDO regulators uses the first number to denote Output Current Rating, and two digits following "R" to denote voltages.

Output Current Rating:

1A = No designator

2A = 2

3A = 3

KA78R05TU

KA278R33TU

KA378R06TU

Output Voltage:

00 = Adjustable Voltage

33 = 3.3V

51 = 5.1V

08 = 8V

12 = 12V

KA Series (continued)

3. Package Type & Packing Options

Package	Packing Method	Packing Code	Device Increment	Suffix	Packing Option Suffix
8-SOP	Tube	T	8,100	D	
8-SOP	Tape & Reel	T&R	3,000	D	TF
14-SOP	Tube	T	4,050	D	
14-SOP	Tape & Reel	T&R	3,000	D	TF
16-SOP	Tube	T	4,050	D	
16-SOP	Tape & Reel	T&R	3,000	D	TF
20-SOP	Tube	T	2,100	D	
20-SOP	Tape & Reel	T&R	2,000	D	TF
20-SOP-375	Tube	T	1,200	D	
20-SOP-375	Tape & Reel	T&R	1,000	D	TF
22-SOP	Tube	T	2,100	D	
22-SOP	Tape & Reel	T&R	2,000	D	TF
24-SOP	Tube	T	4,050	D	
SOT-89	Tape & Reel	T&R	4,000	M	TF
D-PAK	Tape & Reel	T&R	2,000	R	TF
D-PAK	Tape & Reel	M*	2,500	R	TM*
D-PAK	Tube	T	1,000	R	
28-SSOPH-300	Tape & Reel	T&R	2,000	D2	TF
28-SSOPH-300	Tube	T	2,100	D2	
28-SSOPH-375	Tape & Reel	T&R	1,500	D	
28-SSOPH-375	Tube	T	1,500	D	
30-SSOP-375	Tube	T	2,100		
36-SSOPH	Tube	T	1,500		
44-QFP-1010B	Tray	Q	1,600		
48-QFP-1010E	Tray	Q	1,600		
48-QFPH-1414	Tray	Q	840		
8-DIP	Tube	T	3,000		
14-DIP	Tube	T	1,500		
16-DIP	Tube	T	1,500		
22-DIP	Tube	T	612		
TO-92	Ammo Pak	T&R	2,000	Z	TA
TO-92	Bulk	B	10,000	Z	
TO-92	Tape & Reel	T&R	2,000	Z	TF
TO-220	Bulk	B	1,000		
TO-220	Tube	T	1,000		TU
TO-220 (F/P) 4 Leads	Tube	T	1,000		TU
8-SIP	Tube	T	3,000		
9-SIP	Tube	T	1,760	S, " "	
10-SIP	Tube	T	648		
10-SIPH	Tube	T	648		
10-SIPH-B	Tube	T	612		

Note: In the M version of the Tape & Reel, the devices are rotated 90° to allow more devices per reel.

RC/RM/RV Series

	Prefix	Device Number (Suffixes are optional)	Package Type	Packaging Options
	XX	XXXX	XX	XX
Examples:	RC	1587	M	
	RM	3182A	S	T

1. Prefix

Temperature Range

RC = Commercial 0 to +70 degC

RV = Industrial -25 to +85degC

RM = Military -55 to +125 degC

2. Device Number

Suffixes:

A = Improved Electrical Specification

Examples:

RC431AM

Linear Voltage Regulators:

Certain linear voltage regulators, mostly LDO's are available in both adjustable and fixed voltage versions. The fixed voltages are noted without punctuation following the package option.

Output Voltage:

adjustable

2.5V

2.85V

5V

RC1117M

RC1117M25

RC1117M285

RC1117M5

RC/RM/RV Series (continued)

3. Package Type

Package	Package Suffix	Notes
SO-8	M	
SO-14	M	
SO-16	M	
SO-20	M	
SO-24	M	
SO-28	M	
SOT-223	S	
SOT-23-5	M	
SSOP-20	G	
TSSOP-20	G	
TSSOP-24	MTC	
TSSOP-28	MTC	
DPAK	DT	TO-252
PDIP-14	N	
PDIP-8	N	
TO-220	T	
TO-263	M	
TO-263-5	M	5 Lead TO-263
TO-263-C	MC	TO-263 with Center Cut Lead
TO-92	T	
PLCC-28	QA	
CDIP-20	D	Ceramic Dual In-Line Package
SBDIP-16	S	16-Lead Sidebrazed Ceramic DIP

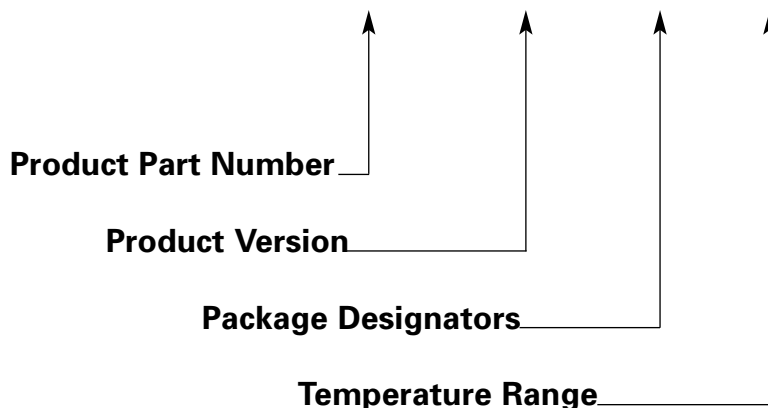
4. Packing Options

For Tape & Reel options, add T to the end of the part number. Ex: RC5051MT

Video—Part Number/Package Designator Reference*

Example:

TMC 2242 C KT C



C = 0 to 70°C
 A = -40 to 85°C
 V = -55 to 125°C

Package Designators:

B2	24-lead CerDIP	KJ	100-lead Metric QFP with heatsink	N6	28-lead PDIP
C3	28-lead LCC	KL	80-lead Metric QFP	Q1	24-lead TSSOP
G1	121-lead PGA	KP	64-lead Metric QFP, 2mm pitch	QS	24-lead QSOP
G8	69-lead PGA	KR	48-lead Leaded QFP	R0	84-lead PLCC
H5	121-lead Plastic PGA	KT	44-lead Metric QFP	R1	68-lead PLCC
H8	69-lead Plastic PGA	L1	68-lead LCC	R2	44-lead PLCC
KB	128-lead Metric QFP	L5	132-lead LCC	R3	28-lead PLCC
KC	128-lead Metric QFP with heatsink	M7	24-lead SOIC	R6	32-lead PLCC
KH	100-lead Metric QFP	N2	24-lead PDIP		

For Tape & Reel option, add "-T" to the end of P/N

*Partial listing only, representing the most frequently requested packages.