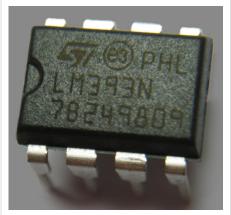
List of LM-series integrated circuits

The following is a **list of LM-series integrated circuits**. Many were among the first analog integrated circuits commercially produced; some were groundbreaking innovations, and many are still being used. The LM series originated with integrated circuits made by National Semiconductor. The prefix LM stands for *linear monolithic*, referring to the analog components integrated onto a single piece of silicon. Because of the popularity of these parts, many of them were second-sourced by other manufacturers who kept the sequence number as an aid to identification of compatible parts. Several generations of pin-compatible descendants of the original parts have since become *de-facto* standard electronic components.



LM393 differential comparator manufactured by STMicroelectronics

Operational amplifiers

Part number	Predecessor	Obsolete?	Description
LM10			Op-amp with an adjustable voltage reference
LM101 LM201	μΑ709		General purpose Op-amp with external compensation
LM301			
LM107	μΑ709	Yes	General purpose Op-amp
LM207 LM307			
LM108 LM208		Yes	Precision Op-amp
LM208 LM308			
LM112		Yes	Micropower Op-amp with external compensation
LM112 LM212		ies	Micropower Op-amp with external compensation
LM312			
LM118			Precision, fast general purpose Op-amp with external compensation
LM218			
LM318			
LM321			Low power Op-amp
LM124			Quadruple wide supply range Op-amps
LM224			
LM324			
LM2902			
LM146		only LM146	Programmable quadruple Op-amps
LM346			
LM148			General purpose quadruple Op-amps
LM248			
LM348			

LM158 LM258 LM358 LM2904			Low power, wide supply range dual Op-amps
LM392	12050 120401		Low power dual Op-amps and comparator
LM432 LM611	LM358, LMV431		Dual Op-amps with fixed 2.5V reference Op-amp with an adjustable voltage reference
LM614			Quadruple Op-amps with an adjustable voltage reference
LM709		Yes	Power Op-amp with a maximal current output of 3 amps
LM741	LM709	108	General purpose Op-amp General purpose Op-amp
LM748			General purpose Op-amp with external compensation
LM837			Low noise quadruple Op-amps

Differential comparators

Part number	Predecessor	Obsolete?	Description
LM306			High speed differential comparator with strobes
LM111	LM106		High speed differential comparator with strobes
LM211	LM710		
LM311			
LM119	LM711(?)		High speed dual comparators
LM219			
LM319			
LM139			Quadruple wide supply range comparators
LM239			
LM339			
LM2901			
LM160	μΑ760		High speed comparator with complementary TTL outputs
LM360			
LM161		only LM161	High speed comparator with strobed complementary TTL outputs
LM361			
LM193			Dual wide supply range comparators
LM293			
LM393			
LM2903			
LM397			General purpose comparator with an input common mode
LM613			Dual Op-amps, dual comparators and adjustable reference

Current-mode amplifiers

Pa	art number	Predecessor	Obsolete?	Description
LN	М359			Dual, high speed, programmable current mode amplifiers

Instrumentation amplifiers

Part number	Predecessor	Obsolete?	Description
LM363		Yes	Precision instrumentation amplifier

Audio amplifiers

Part number	Predecessor	Obsolete?	Description
LM380			2.5W audio power amplifier (fixed 34dB gain)
LM384			5W audio power amplifier (fixed 34dB gain)
LM386			Low voltage audio power amplifier
LM833			Dual high speed audio amplifiers

Precision reference

Part number	Predecessor	Obsolete?	Description
LM113		only LM313	Temperature compensated Zener reference diode, 1.22V breakdown voltage
LM313			
LM329			Temperature compensated Zener reference diode, 6.9V breakdown voltage
LM136			2.5V or 5V Zener reference diode with temperature coefficient trimmer
LM236			
LM336			
LM368		Yes	2.5V precision voltage reference
LM169	LM199	Yes	2.5V temperature compensated precision voltage reference
LM369			
LM185			Fixed (1.2V, 2.5V) or adjustable micropower voltage reference
LM285			
LM385			
LM199		Yes	Fixed (6.95V) voltage reference
LM299			
LM399			
LM431			Adjustabe precision Zener shunt regulator (2.5V-36V)

Voltage regulators

Part number	Predecessor	Obsolete?	Description
LM105 LM305	LM100	Yes	Adjustable positive voltage regulator (4.5V-40V)
LM109 LM309			5-Volt regulator (up to 1A)
LM117 LM317			Adjustable 1.5A positive voltage regulator (1.25V-37V)
LM120 LM320			Fixed 1.5A negative voltage regulator (-5V,-12V,-15V)
LM123 LM323			Fixed 3A, 5-Volt positive voltage regulator
LM325		Yes	Dual ±15-Volt voltage regulator
LM330			5-Volt positive voltage regulator, 0.6V input-output difference
LM333		Yes	Adjustable 3A negative voltage regulator (-1.2V to -32V)
LM237 LM337			Adjustable 1.5A negative voltage regulator (-1.2V to -37V)
LM138 LM338			Adjustable 5A voltage regulator (1.2V-32V)
LM140 LM340	LM78xx		1A positive voltage regulator (5V, 12V, 15V), can be adjustable
LM341 LM78Mxx			0.5A protected positive voltage regulators (5V, 12V, 15V)
LM145 LM345		Yes	Fixed 3A, -5-Volt negative voltage regulator
LM150 LM350		only LM150	Adjustabe 3A, positive voltage regulator (1.2V-33V)
LM78xx		Yes	Fixed 1A positive voltage regulators (5V-24V)

Voltage-to-frequency converters

Part number	Predecessor	Obsolete?	Description
LM231			Precision voltage-to-frequency converter (1kHz-100kHz)
LM331			

Current sources

Predecessor	Obsolete?	Description
		Adjustable current source (1µA-10mA)
]	Predecessor	Predecessor Obsolete?

Temperature sensors and thermostats

Part number	Predecessor	Obsolete?	Description
LM19			Temperature sensor, 2.5°C accuracy
LM20			Temperature sensor, 1.5°C accuracy
LM26			Factory preset thermostat, 3°C accuracy
LM27			Factory preset thermostat (120°C-150°C), 3°C accuracy
LM34			Precision Fahrenheit temperature sensor, 0.5°F accuracy
LM35			Precision Centigrade temperature sensor, 0.25°C accuracy
LM45			Precision Centigrade temperature sensor, 2°C accuracy
LM50			Single supply Centigrade temperature sensor, 2°C accuracy
LM56			Dual output low power thermostat, resistor programmable
LM56			Dual output resistor programmable thermostat with analog temperature sensor
LM60			Single supply Centigrade temperature sensors
LM61			(The difference between the components is the voltage scale)
LM62			
LM135			Precision Zener temperature sensor, 1°C accuracy
LM235			
LM335			

Notes

- Suffixes that denote specific versions of the part (e.g. LM305 vs. LM305A) are not shown in this list.
- The first digit of each part denote different temperature ranges. Mostly, **LM1xx** indicates military-grade temperature range of -55° to +125°C, **LM2xx** indicates industrial-grade temperature range of -25° to +85°C and **LM3xx** indicates temperature range of 0° to 70°C.
- Some of the obsolete parts are continued to be manufactured by different companies other than the original manufacturer, e.g. Fairchild Semiconductor.

References

Article Sources and Contributors

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