

Consumer ICs

General

Type	Function	Description	Package No. of Pins**
ICM7206	CMOS Touch-Tone* Encoder	2-of-8 sine wave DTMF generator for telephone dialing systems. Requires a 3.58MHz crystal & will work with 3 x 4 or 4 x 4 keypads. Has high-current bipolar output driver providing low harmonic distortion. T _A Range: -40°C to +85°C	PE
ICL8038	Precision Waveform Generator/ Voltage-Controlled Oscillator	Bipolar type. Capable of producing high accuracy sine, square & triangular waveforms. Frequency range 0.001Hz to 300kHz. T _A Range: 0°C to +70°C, -55°C to +125°C	JD PD
AD590	2-Wire Current-Output Temperature Transducer	Output current varies linearly at 1 μA/°K for supply voltages between -55°C and +150°C in which conventional electrical temperature sensors are now employed. T _A Range: -55°C to +150°C	IH JH
ICL8069	Low-Voltage Reference	A 1.2V temperature-compensated bandgap voltage reference. It achieves excellent stability and low noise at currents as low as 50 μA. T _A Range: 0°C to +70°C, -55°C to +125°C	SQ ZR
ICL8048	Log/Antilog Amplifiers	Full temperature compensated, will handle 6 decades of current input or 3 decades of voltage input. Generates 1V of output for each decade change of input. T _A Range: 0°C to +70°C	JE
ICL8049	Log/Antilog Amplifiers	Antilogarithmic version of ICL8048, generates 1 decade of output voltage for each one voltage change at the input	JE
ICL8063	Power Transistor Driver/ Amplifier	Converts ±12V outputs from op amps and other devices to ±30V levels. <ul style="list-style-type: none"> • Can deliver > 50W to external loads • Produces 25mA quiescent current in power output stages • Built-in ±13V regulators • T_A Range: 0°C to +70°C, -55°C to +125°C 	JE PE

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* See interpretation guide and packaging section

° 0°C to +70°C for TO-92

Type	Function	Description	Electrical Characteristics @ T _A = +25°C				** Package No. of Pins*
			Operating Voltage Range (V)	Input Leakage Current Max (pA)	Standby Battery Current Typ (μA)	Available Reference Source Curr. Min (μA)	
CA3164A	BIMOS Single-Chip Detector/ Alarm System	With Integral Drivers for Mechanical or Piezo-electric Horn Alarms	7 - 11	1	8*	5	14, E

Operating Temperature Range (T_A): 0°C to +50°C

* Adjustable to 5 μA

* See interpretation guide and packaging section

Type	Function	Features	Temperature Range	Package*
HA-2546	Analog Multiplier	<ul style="list-style-type: none"> • 30MHz signal bandwidth • 17MHz control bandwidth • Voltage output stage • Low multiplication error 1.6% • Monolithic construction 		
ICL8013	Four Quadrant Analog Multiplier	<ul style="list-style-type: none"> • Bipolar, four-quadrant • Output proportional to algebraic product of two input signals • Internal op-amp provides level shifting • Can generate division and square root functions • Potentiometers time gain accuracy, offset voltage and feedthrough performance 	0°C to +70°C -55°C to +125°C	10 Pin TO-100 Metal Can

* See interpretation guide and packaging section