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CMP04 - Quad Low Power, Precision Comparator

[Data Sheets](#)

[Rev D](#), (03/2003)
pdf, 282K
[EMAIL PDF](#)

[Application Notes](#)

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Product Description

Four precision independent comparators comprise the CMP04. Performance highlights include a very low offset voltage, low output saturation voltage and high gain in a single supply design. The ...[More](#)

Features

- High Gain: 200 V/mV Typ
- Single- or Dual-Supply Operation
- Input Voltage Range Includes Ground
- Low Power Consumption (1.5 mW/Comparator)
- Low Input Bias Current: 100 nA Max
- Low Input Offset Current: 10 nA Max
- Low Offset Voltage: 1 mV Max
- Low Output Saturation Voltage: 250 mV @ 4 mA
- Logic Output Compatible with TTL, DTL, ECL, MOS, and CMOS
- Directly Replaces LM139/LM239/LM339 Comparators

Price, Packaging, and Availability

CMP04 Model Options

Model	Status	Package	Pins	Temp Range	Price* (1000-4999)	Available	Samples Cart	Purchase Cart
5962-8990403CA	Obs	CERDIP GLASS SEAL	14	Mil	-	-	Contact ADI	Contact ADI
CMP04BY/883C	Obs	CERDIP GLASS SEAL	14	Mil	-	-	Contact ADI	Contact ADI
CMP04FP	Obs	PLASTIC DIP	14		-	-	Contact ADI	Contact ADI
CMP04FS	Prodn	14 Id SOIC	14		\$4.75	9/24/2004	Add to Cart	Add to Cart
CMP04FS-REEL	Prodn	14 Id SOIC	14	Ind	-	4/29/2005	Contact ADI	Add to Cart
CMP04NBC	Obs	CHIPS OR DIE	-	TBD	-	-	Contact ADI	Contact ADI

New Comparators

[ADCMP561](#) - Dual High Speed PECL Comparator 16 - Lead QSOP

Design Tools

[AD8561 SPICE Macro-Model](#)

[AD8564 SPICE Macro-Model](#)

[AD8598 SPICE Macro-Model](#)

[More...](#)

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Signal Chains

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Part#	Prop Delay (ns) typ	# Per Pkg	Supply Current (mA)	Voltage Supply (V)	No of Supplies	Input Range (V)	Logic Output	Prog. Int. Hyst	Latch Enable Pin	Package	Min Pulse Width	Price* (1000-4999)
ADCMP370	2000	1	0.005	2.25 to 5.5	1	0 to 22V	TTL/CMOS	X	-	5-Lead SC-70	5µs	\$0.28
ADCMP371	2000	1	0.005	2.25 to 5.5	1	0 to 22V	TTL/CMOS	X	-	5-Lead SC-70	5µs	\$0.28
ADCMP566	0.3	2	83	5, -5.2	2	-2 to 3V	ECL	-	X	32-Lead LFCSP	200ps	\$3.60
ADCMP551	0.75	2	16	-	1	-0.2 to V _{cc} -2V	PECL	-	X	16-Lead QSOP	750ps	-
AD8561	45	1	-	3 to 10	-	-5.0V to +3.0V	Diff/TTL	-	X	-	-	\$1.76
ADCMP552	0.75	2	16	-	1	-0.2 to V _{cc} -2V	PECL	X	X	20-Lead QSOP	750ps	-
AD8611	5.5	1	-	3 to 5	-	-0.2 to V _{cc} -2V	Diff/TTL	-	X	-	-	\$2.00
ADCMP553	0.75	1	8	-	1	-0.2 to V _{cc} -2V	PECL	-	X	8-Lead MSOP	750ns	-
AD96685	6	-	-	-	-	-2.5V to +5.0V	Diff/ECL	-	X	-	-	\$3.05
ADCMP561	0.75	2	23	5, -5.2	2	-2 to 3V	PECL	-	X	16-Lead LFCSP	700ps	\$2.40
ADCMP350	2000	1	0.015	2.25 to 5.5	1	0 to 22V	TTL/CMOS	X	-	4-Lead SC-70	-	-

ADCMP562	0.75	2	23	5, -5.2	2	-2 to 3V	PECL	X	X	16-Lead LFCSP	700ps	\$3.00
ADCMP352	2000	1	0.015	2.25 to 5.5	1	0 to 22V	TTL/CMOS	X	-	4-Lead SC-70	25µs	-
ADCMP563	0.75	2	23	5, -5.2	2	-2 to 3V	ECL	-	X	16-Lead QSOP	700ps	\$2.40
ADCMP354	2000	1	0.015	2.25 to 5.5	1	0 to 22V	TTL/CMOS	-	-	4-Lead SC-70	25µs	-
ADCMP564	0.75	2	23	5, -5.2	2	-2 to 3V	ECL	X	X	20-Lead QSOP	700ps	\$3.00
ADCMP356	2000	1	0.015	2.25 to 5.5	1	0 to 22V	TTL/CMOS	X	-	4-Lead SC-70	-	-
ADCMP572	0.15	1	44	-	1	-0.2 to V _{cci} -2V	CML	X	X	16-Lead LFCSP	80ps	-
ADCMP567	0.3	2	83	5, -5.2	2	-2 to 3V	PECL	-	X	32-Lead LFCSP	200ps	\$3.60
ADCMP573	0.15	1	66	-	1	-0.2 to V _{cci} -2V	PECL	X	X	16-Lead LFCSP	80ps	-
AD8564	8	4	-	+/- 5	-	0 to 2.75V	TTL/CMOS	-	-	-	-	\$3.69
ADCMP580	0.15	1	50	-	2	-2 to 3V	CML	X	X	16-Lead LFCSP	80ps	-
AD96687	-	-	-	-	-	-2.5V to +5.0V	-	-	-	-	-	\$3.05
ADCMP581	0.15	1	34	-	2	-2 to 3V	ECL	X	X	16-Lead LFCSP	80ps	-
ADCMP353	2000	1	0.015	2.25 to 5.5	1	0 to 22V	TTL/CMOS	X	-	4-Lead SC-70	-	-
ADCMP582	0.15	1	75	-	2	-2 to 3V	PECL	X	X	16-Lead LFCSP	80ps	-
ADCMP357	2000	1	0.015	2.25 to 5.5	1	0 to 22V	TTL/CMOS	X	-	4-Lead SC-70	-	-
AD8612	5.5	2	-	3 to 5	-	0 to V _{cc} -2	Diff/TTL	-	X	-	-	\$3.37
ADCMP351	2000	1	0.015	2.25 to 5.5	1	0 to 22V	TTL/CMOS	X	-	4-Lead SC-70	25µs	-
ADCMP355	2000	1	0.015	2.25 to 5.5	1	0 to 22V	TTL/CMOS	X	-	4-Lead SC-70	-	-
AD790	45	1	-	+/-15	-	-V _s to V _s -2V	Open Collector	-	X	-	-	\$3.67
CMP04	-	-	-	-	-	0 to V ₊ -1.5	-	-	-	-	-	\$4.75

CMP401	-	-	-	-	-	-5.0V to +4.0V	-	-	-	-	-	\$3.35
CMP402	-	-	-	-	-	-5.0V to +4.0V	-	-	-	-	-	\$3.37
ADCMP565	0.3	2	83	5, -5.2	2	-2 to 3V	ECL	-	X	20-Lead QSOP	200ps	\$4.90

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