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AD790 - Fast, Precision Comparator

Data Sheets

- [Rev D](#), 06/2002 (pdf, 178K)

[Email PDF](#)

Application Notes

Evaluation Boards

Price, Packaging, and Availability

- [Lead\(Pb\) - Free Data](#)

[\(Data Sheet Help\)](#)

Product Description

The AD790 is a fast (45 ns), precise voltage comparator, with a number of features that make it exceptionally versatile and easy to use. The AD790 may operate from either a single +5 V...[More](#)

Specifications

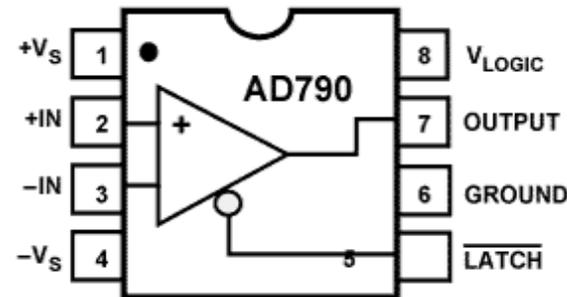
Logic Output	TTL/CMOS
# Channels	1
Prop Delay	45ns
Supply Voltage	+/-15
Supply Current	-
Min Pulse Width	-
Package	8-Lead DIP, 8-Lead SOIC
Output Rise/Fall Time	-
Latch Enable	X
Jitter	-

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Pin Out Diagram

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8-Pin Plastic Mini-DIP (N) and Cerdip (Q) Packages


[Symbols and Footprints](#)

Other Diagrams:

[Pin Out Diagram](#)

Features

- 45 ns max Propagation Delay
- Single 5 V or Dual ± 15 V Supply Operation
- CMOS or TTL Compatible Output
- 250 μ V max Input Offset Voltage
- 500 μ V max Input Hysteresis Voltage
- 15 V max Differential Input Voltage
- Onboard Latch
- 60 mW Power Dissipation
- Available in 8-Pin Plastic and Hermetic Cerdip Packages
- Available in Tape and Reel in Accordance with EIA-481A Standard

Related Tech Info

[Application Notes](#)
[ADuC Quick](#)
[Reference Guides](#)

(pdf, 405,528 bytes)

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AD790 Model Options

Model	Status	Package	Pins	Temp Range	Available	RoHS Compliant	Samples Cart	Purchase Cart
AD790AQ	Prodn	8 ld CerDIP	8		10/28/2005	N	-	Add to Cart
AD790JN	Prodn	8 ld PDIP	8	TBD	11/25/2005	N	-	Add to Cart
AD790JNZ	Prodn	8 ld PDIP	8	TBD	-	Y	-	Add to Cart
AD790JR	Prodn	8 ld SOIC	8	Comm	11/4/2005	N	Add to Cart	Add to Cart
AD790JR-REEL	Prodn	8 ld SOIC	8	Comm	10/28/2005	N	-	Add to Cart
AD790JR-REEL7	Prodn	8 ld SOIC	8	Comm	10/28/2005	N	-	Add to Cart
AD790JRZ	Prodn	8 ld SOIC	8		10/28/2005	Y	-	Add to Cart
AD790JRZ-REEL	Prodn	8 ld SOIC	8		11/4/2005	Y	-	Add to Cart
AD790JRZ-REEL7	Prodn	8 ld SOIC	8		-	Y	-	Add to Cart
AD790SQ	Prodn	8 ld CerDIP	8		12/9/2005	N	-	Add to Cart

The USA list pricing shown is for BUDGETARY USE ONLY, shown in United States dollars (FOB USA per unit for the stated volume), and is subject to change. International prices may differ due to local duties, taxes, fees and exchange rates. For volume-specific price or delivery quotes, please contact your local Analog Devices, Inc. sales office or authorized distributor. Pricing displayed for Evaluation Boards and Kits is based on 1-piece pricing.

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Part#	Prop Delay (ns)typ	# Per Pkg	Total Power (mW)	Voltage Supply (V)	No of Supplies	Input Range (V)	Logic Output	Prog. Int. Hyst	Latch Enable Pin	Package	Min Pulse Width
ADCMP551	0.75	2	60	3.3 to 5	1	-0.2 to V _{cc} -2V	PECL	-	X	16-Lead QSOP	700ps
ADCMP552	0.75	2	60	3.3 to 5	1	-0.2 to V _{cc} -2V	PECL	X	X	20-Lead QSOP	700ps
ADCMP566	0.25	2	450	5, -5.2	2	-2 to 3V	ECL	-	X	32-Lead LFCSP	200ps
ADCMP553	0.75	1	30	3.3 to 5	1	-0.2 to V _{cc} -2V	PECL	-	X	8-Lead MSOP	700ps
AD8561	7	1	65	+/- 5	2	-5.0V to +3.0V	Diff/TTL	-	X	8-Lead SOIC, 8-Lead TSSOP	-

ADCMP561	0.75	2	160	5, -5.2	2	-2 to 3V	PECL	-	X	16-Lead QSOP	700ps
AD8611	5.5	1	50	3 to 5	1	0 to 3V	Diff/TTL	-	X	8-Lead MSOP, 8-Lead SOIC	-
ADCMP562	0.75	2	160	5, -5.2	2	-2 to 3V	PECL	X	X	20-Lead QSOP	700ps
AD96685	6	1	120	5, -5.2	2	-2.5V to +5.0V	Diff/ECL	-	X	16-Lead SOIC	-
ADCMP563	0.75	2	120	5, -5.2	2	-2 to 3V	ECL	-	X	16-Lead LFCSP, 16-Lead QSOP	700ps
ADCMP350	5000	1	0.083	2.25 to 5.5	1	0 to 22V	Open-Drain/Active-Low	Fixed	-	4-Lead SC-70	25µs
ADCMP564	0.75	2	120	5, -5.2	2	-2 to 3V	ECL	X	X	20-Lead QSOP	700ps
ADCMP354	5000	1	0.083	2.25 to 5.5	1	0 to 22V	Open-Drain/Active-High	Fixed	-	4-Lead SC-70	25µs
ADCMP572	0.15	1	145	3.3 to 5	1	-0.2 to Vcci-2.1V	CML	X	X	16-Lead LFCSP	80ps
ADCMP370	5000	1	0.039	2.25 to 5.5	1	0 to 22V	Open-Drain	Fixed	-	5-Lead SC-70	5µs
ADCMP573	0.15	1	145	3.3 to 5	1	-0.2 to Vcci-2.1V	PECL	X	X	16-Lead LFCSP	80ps
ADCMP567	0.25	2	520	5, -5.2	2	-2 to 3V	PECL	-	X	32-Lead LFCSP	200ps
ADCMP580	0.15	1	240	5, -5.2	2	-2 to 3V	CML	X	X	16-Lead LFCSP	80ps
AD8564	8	4	150	+/- 5	2	-5.0V to +3.0V	TTL/CMOS	-	-	16-Lead SOIC, 16-Lead TSSOP	-
ADCMP581	0.15	1	240	5, -5.2	2	-2 to 3V	ECL	X	X	16-Lead LFCSP	80ps
AD96687	6	2	240	5, -5.2	2	-2.5V to +5.0V	Diff/ECL	-	X	16-Lead DIP, 16-Lead SOIC, 20-Lead PLCC	-
ADCMP582	0.15	1	240	5, -5.2	2	-2 to 3V	PECL	X	X	16-Lead LFCSP	80ps

ADCMP356	5000	1	0.083	2.25 to 5.5	1	0 to 22V	Push-Pull/ Active-High	Fixed	-	4-Lead SC-70	25µs
AD790	45	1	250	+/-15	3	-Vs to Vs -2V	TTL/CMOS	0.4 mV, Fixed	X	8-Lead DIP, 8- Lead SOIC	-
AD8612	5.5	2	100	3 to 5	1	0 to 3V	Diff/TTL	-	X	14-Lead TSSOP	-
ADCMP352	5000	1	0.083	2.25 to 5.5	1	0 to 22V	Push-Pull	Fixed	-	4-Lead SC-70	25µs
ADCMP371	5000	1	0.039	2.25 to 5.5	1	0 to 22V	Push-Pull	Fixed	-	5-Lead SC-70	5µs
CMP04	1300	4	6	3.3 to 36	1	0 to V+ - 1.5	Open Collector	-	-	14-Lead SOIC	-
CMP401	23	4	110	+/- 5	2	-5.0V to +4.0V	TTL/CMOS	-	-	16-Lead SOIC, 16- Lead TSSOP	-
CMP402	65	4	40	+/- 5	2	-5.0V to +4.0V	TTL/CMOS	-	-	16-Lead SOIC, 16- Lead TSSOP	-
ADCMP565	0.3	2	435	5, -5.2	2	-2 to 3V	ECL	-	X	20-Lead PLCC	200ps