

HI1172, CXD1172

February 1996

Features

6-Bit 20 MSPS Video A/D Converter (CMOS)

(Reference Current Excluded)

• Built-In Sampling and Hold Circuit

• Three-State TTL Compatible Output

Description

HI1172, CXD1172 is a 6-bit CMOS A/D converter for video use. The adoption of a 2-step parallel conversion speed of 20 MSPS minimum, 35 MSPS typical.

Ordering Information

PART NUMBER	TEMPERATURE RANGE	PACKAGE
HI1172JCP, CXD1172AM	-20°C to +75°C	16 Lead Plastic DIP
HI1172JCB, CXD1172AP	-20°C to +75°C	16 Lead Plastic SOIC

Applications

CLK 7

DV_{SS} 8

 TV, VCR Digital Systems and a Wide Range of Fields Where High Speed A/D Conversion is Required

10 AV_{DD}

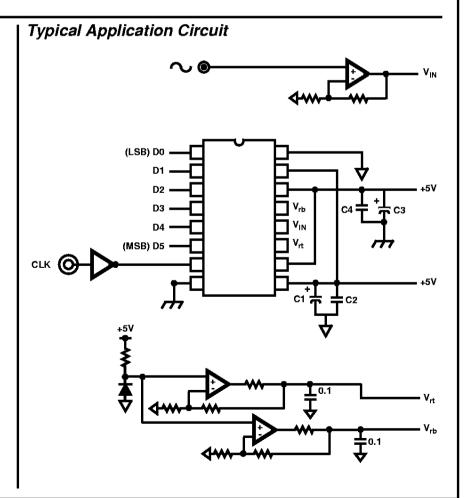
9 DV_{DD}

Pinout

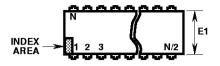
TOP VIEW

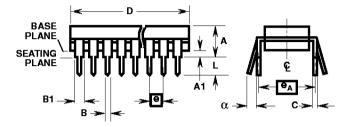
D₀ 1 16 AV_{SS}
D₁ 2 15 DV_{DD}
D₂ 3 14 AV_{DD}
D₃ 4 13 V_{RB}
D₄ 5 12 V_{IN}
D₅ 6 11 V_{RT}

HI1172, CXD1172 (16 LEAD PDIP, PSOP)



Dual-In-Line Plastic Packages (PDIP)





NOTES:

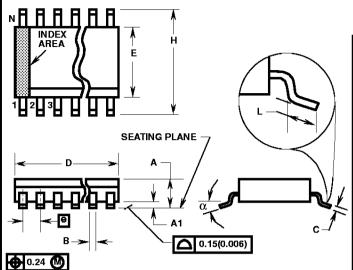
- Controlling Dimensions: MILLIMETER. In case of conflict between English and Metric dimensions, the metric dimensions control.
- 2. Dimensions A, A1 and L are measured with the package seated in JEDEC seating plane gauge GS-3.
- 3. D and E1 dimensions do not include mold flash or protrusions.
- 4. eA is measured with the leads constrained to be perpendicular to base plane.
- 5. N is the maximum number of terminal positions.

E16.3A-S
16 LEAD DUAL-IN-LINE PLASTIC PACKAGE

	INCHES		MILLIMETERS					
SYMBOL	MIN	MAX	MIN	MAX	NOTES			
Α	0.142	0.161	3.60	4.10	2			
A1	0.020	-	0.50	-	2			
В	0.016	0.023	0.40	0.60	-			
B1	0.042	0.053	1.05	1.35	-			
С	0.008	0.013	0.20	0.35	-			
D	0.752	0.771	19.10	19.60	3			
E1	0.244	0.263	6.30	6.70	3			
е	0.100 BSC		2.54 BSC		-			
e _A	0.300 BSC		7.62 BSC		4			
L	0.119	-	3.00	-	2			
N	16		16		5			
α	0°	15º	0°	15 ^o	-			

Rev. 0 2/96

Small Outline Plastic Packages (SOIC)



M16.2-S 16 LEAD SMALL OUTLINE PLASTIC PACKAGE (200 MIL)

	INCHES		MILLIMETERS		
SYMBOL	MIN	MAX	MIN	MAX	NOTES
Α	0.067	0.078	1.70	2.00	-
A1	0.002	0.011	0.05	0.30	-
В	0.014	0.021	0.35	0.55	-
С	0.006	0.011	0.15	0.30	-
D	0.386	0.405	9.80	10.30	1
Е	0.205	0.220	5.20	5.60	2
е	0.050 BSC		1.27 BSC		-
Н	0.296	0.326	7.50	8.3	-
L	0.012	0.027	0.30	0.70	3
N	16		16		4
α	0o	10°	0°	10°	-

Rev. 0 2/96

NOTES:

- Dimension "D" does not include mold flash, protrusions or gate burrs.
- 2. Dimension "E" does not include interlead flash or protrusions.
- 3. "L" is the length of terminal for soldering to a substrate.
- 4. "N" is the number of terminal positions.
- 5. Terminal numbers are shown for reference only.
- Controlling dimension: MILLIMETER. Converted inch dimensions are not necessarily exact.

All Harris Semiconductor products are manufactured, assembled and tested under ISO9000 quality systems certification.

Harris Semiconductor products are sold by description only. Harris Semiconductor reserves the right to make changes in circuit design and/or specifications at any time without notice. Accordingly, the reader is cautioned to verify that data sheets are current before placing orders. Information furnished by Harris is believed to be accurate and reliable. However, no responsibility is assumed by Harris or its subsidiaries for its use; nor for any infringements of patents or other rights of third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of Harris or its subsidiaries.

Sales Office Headquarters

For general information regarding Harris Semiconductor and its products, call 1-800-4-HARRIS

NORTH AMERICA

Harris Semiconductor P. O. Box 883, Mail Stop 53-210 Melbourne, FL 32902

TEL: 1-800-442-7747 (407) 729-4984 FAX: (407) 729-5321

EUROPE

Harris Semiconductor Mercure Center 100, Rue de la Fusee 1130 Brussels, Belgium TEL: (32) 2.724.2111 FAX: (32) 2.724.22.05

ASIA

Harris Semiconductor PTE Ltd. No. 1 Tannery Road Cencon 1, #09-01 Singapore 1334 TEL: (65) 748-4200 FAX: (65) 748-0400

