

HARRIS HI2302, CXD2302

February 1996

8-Bit 50 MSPS Video A/D Converter with Clamp Function

Features

Resolution	. 8-Bit \pm 1/2 LSB (DL)
Maximum Sampling Frequency	50 MSPS
Low Power Consumption	
	at 50 MSPS (Typ)
(Reference	ce Current Excluded)

- . Synchronizing Clamp Function
- Clamp ON/OFF Function
- · Reference Voltage Self-Bias Circuit
- Input CMOS/TTL Compatible
- **Three-State TTL Compatible Output**
- Power Supply 5V Single or 5V/3.3V Dual
- Reference Impedance370Ω (Typ)

Applications

. Wide Range of Applications that Require High-Speed A/D Conversion such as TV and VCR

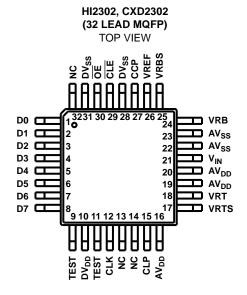
Description

The HI2302, CXD2302 is an 8-bit CMOS A/D converter for video with synchronizing clamp function. The adoption of 2 step-parallel method achieves low power consumption and a maximum conversion rate of 50 MSPS.

Ordering Information

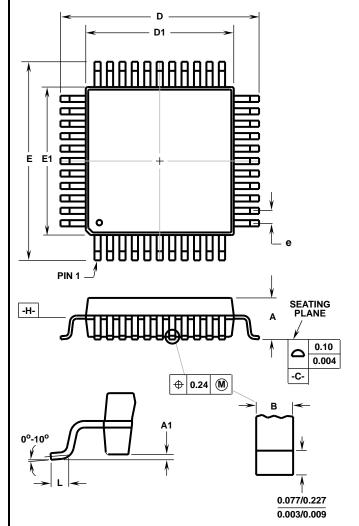
PART NUMBER	TEMPERATURE RANGE	PACKAGE
HI2302JCQ, CXD2302Q		32 Lead Metric Plastic Quad Flatpack

Pinout



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Metric Plastic Quad Flatpack Packages (MQFP)



Q32.7x7-S
32 LEAD METRIC PLASTIC QUAD FLATPACK PACKAGE

	INCHES		MILLIMETERS		
SYMBOL	MIN	MAX	MIN	MAX	NOTES
Α	0.054	0.072	1.35	1.85	-
A1	0.000	0.011	0.00	0.30	-
В	0.008	0.017	0.20	0.45	5
D	0.347	0.362	8.80	9.20	2
D1	0.272	0.287	6.90	7.30	3, 4
E	0.347	0.362	8.80	9.20	2
E1	0.272	0.287	6.90	7.30	3, 4
L	0.012	0.027	0.30	0.70	-
N	32		32		6
е	0.032 BSC		0.80 BSC		-

Rev. 2 4/95

NOTES:

- Controlling dimension: MILLIMETER. Converted inch dimensions are not necessarily exact.
- 2. Dimensions D and E to be determined at seating plane -C-
- 3. Dimensions D1 and E1 to be determined at datum plane -H-
- 4. Dimensions D1 and E1 do not include mold protrusion.
- 5. Dimension B does not include dambar protrusion.
- 6. "N" is the number of terminal positions.

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