

8 Bit, 20 MHz A/D Converter Module

Description

BX-1300 is an 8-bit A/D converter Module for video signal processing, in which CX20052A (8-bit serial-parallel type high-speed A/D converter IC) and necessary peripheral circuits are combined. It can be operated only by connecting a clock pulse circuit and the power supply.

Its digital output is 8-bit parallel output at TTL level.

Features

- Offset adjustment available. Built-in buffer amplifier
- Clock input and digital output at TTL level
- Operation possible only by connecting a clock pulse circuit and the power supply

Structure

Hybrid IC

Functions

- Resolution 8 bit $\pm 1/2$ LSB
- Maximum conversion rate 20 MHz (MIN)
- Analog input level 1 V_{p-p}
- Digital output level TTL level

Absolute Maximum Ratings (T_a = 25°C)

- | | | | |
|-------------------------|------------------|------------|----|
| • Supply voltage | V _{CC} | +5.5 | V |
| | V _{EE} | -5.5 | V |
| • Operating temperature | T _{opr} | -10 to +65 | °C |
| • Storage temperature | T _{stg} | -20 to +80 | °C |

Recommended Operating Conditions

- | | | | |
|------------------------|------------------|-----------------|------------------|
| • Supply voltage | V _{CC} | +5.0 \pm 0.25 | V |
| | V _{EE} | -5.0 \pm 0.25 | V |
| • Clock input voltage | V _{CLK} | at TTL level | |
| • Input signal voltage | V _{IN} | 1 | V _{p-p} |
| • Reference voltage | V _{REF} | -2 | V |

Package Outline

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