SONY BX-1300

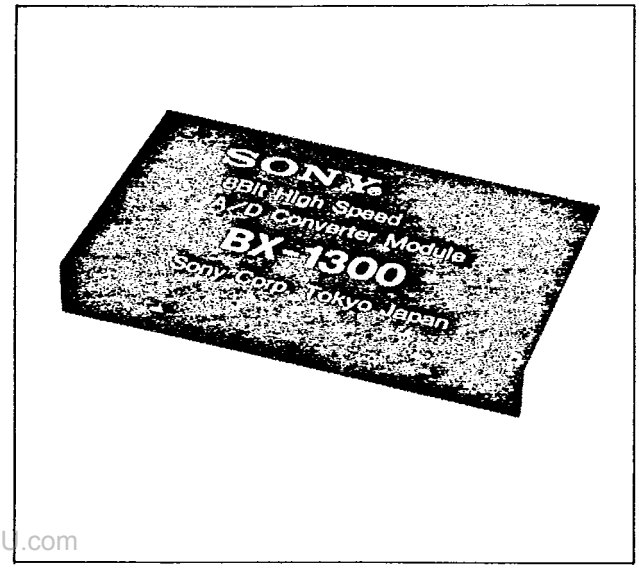
8 Bit, 20 MHz A/D Converter Module

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.

Package Outline



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±1/2 LSB
• Maximum conversion rate	20 MHz (MIN)
• Analog input level	1 Vp-p
• Digital output level	TTL level

Absolute Maximum Ratings (Ta = 25°C)

• Supply voltage	V_{CC}	+5.5	V
	V_{EE}	−5.5	V
• Operating temperature	Topr	−10 to +65	°C
• Storage temperature	Tstg	−20 to +80	°C

Recommended Operating Conditions

• Supply voltage	V_{CC}	+5.0 ± 0.25	V
	V_{EE}	−5.0 ± 0.25	V
• Clock input voltage	V_{CLK}	at TTL level	
• Input signal voltage	V_{IN}	1	Vp-p
• Reference voltage	V_{REF}	−2	V