

# CAMBOARD ELECTRONICS



Entwicklung und Vertrieb  
elektronischer Produkte

## I/O

### Output

Composite: 1Vp- p/75 Ohm

Y/C: 1Vp-p/75 Ohm (Y) 0.3Vp-p/75 Ohm (C)

Component: RGB or Y, R-Y, B-Y (1V, .7V, 75 Ohm) with sync on G/Y

### Input

SMPTE 259M, ITU-R BT. 601

(CCIR 601 SDI)

Input Impedance: 75 Ohm

4 Connector: BNC

### User Controls

External dip switches

Composite select

Y/ C select

Y Cr Cb select

RGsB select

Color bar test signal

Specify note:

Specify either SMPTE N/10 or Betacam™ component setup level  
(not user adjustable)

### Technical

Quantization: 8 or 10-Bit with interpolation above 8-bit

Jitter: >6.5nS

Signal to noise: >52dB (unweighted)

10 Hz to 5 MHz worst case

Processing delay: .7us – SDI path

Differential phase: <0.4°

Differential gain: <0.4% NTSC

K-factor: <1% (2T Pulse)

Frequency Response

CV-Y/C: Flat to 5.0 MHz

Y Cr(V) Cb( U): -3dB @ 6.0 MHz

Y/ C delay: <10nS (CVS)

SCH phase: 0.6° worst case

Equalization: Up to 40dB @ 270Mb/s

(> 375 meters on Belden 8281 cable)

### Physical

#### Dimensions

5 (H) x 2.5 (W) x 1 (D) inches

(12.5 x 6 x 2.5 cm)

#### Weight

5.4oz

(153g)

#### Power

5 VDC (inline PSU included) (1600mA)

Power consumption less than 10 watt

#### Environmental

Operating Temperature: 0- 50 °C

Storage Temp: -50°C to +70°C non-condensing Humidity: 90% max (non-condensing)

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