DAC3001
Digital to Analog Converter

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Part No. 81-9059-0480-0 Revision B

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Printed in the United States of America.

Introduction

The DAC3001 Encoder produces high quality NTSC or PAL encoded video from SMPTE 259M Serial Digital Component Video.

Features

- High quality 10 encoding
- SMPTE 259M Serial Digital input
- Two serial outputs (SMPTE 259M)
- Four analog composite outputs
- Automatic NTSC/PAL selection
- Configurable pedestal and narrow/wide H/V blanking

Configuration:

Dip Switch Functions:

SW 1 Pedestal: (Disabled in PAL)
ON: For inputs with 7.5 IRE Pedestal (will remove pedestal)
OFF: For inputs without Pedestal
Default: ON

SW 2 Vertical Blanking: (line numbers indicate where video starts)
NAR: line 13, field 1; line 12 field 2 (525 line)
WIDE: line 22, field 1; line 21, field 2 (525 line)
Default: NARROW

SW 3 Standard:

AUTO: Automatically sets to 525 or 625 depending on input.
MAN: Video Standard determined by SW4.
Default: Auto

SW 4 Standard:

525: Configures board for 525 line input
625: Configures board for 625 line input
Default: 525

Alignment:

There are four adjustments of the analog outputs.

Adjust R18 for an video level of one volt on “Comp Out 1”
Adjust R29 for an video level of one volt on “Comp Out 2”
Adjust R27 for an video level of one volt on “Comp Out 3”
Adjust R48 for an video level of one volt on “Comp Out 4”

Specifications:

Frequency Response: +/- .2db to 5 MHz, 2x oversampling

Input:

Format: SMPTE 259 Serial Digital Component
Return Loss: 15 db

Output:

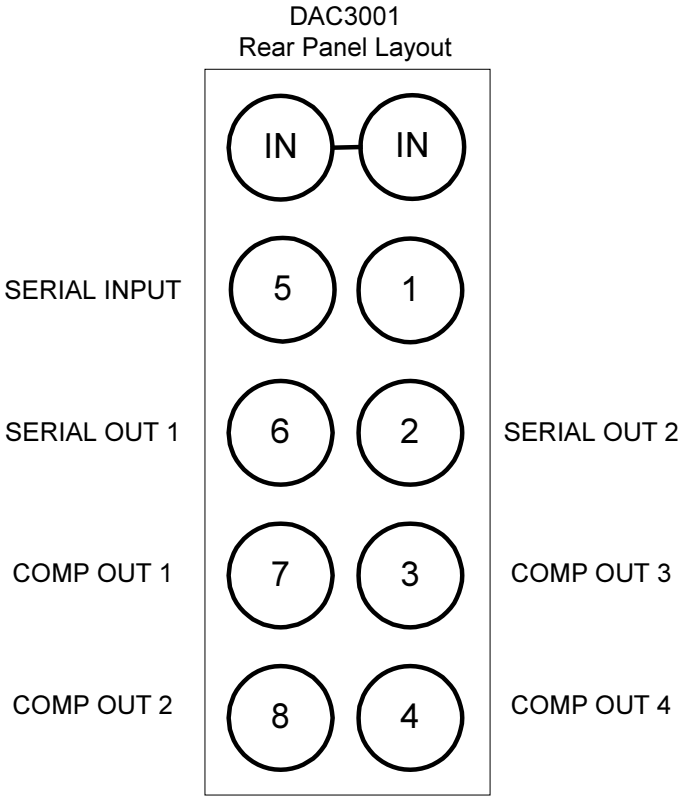
Format: Analog Composite PAL or NTSC
Outputs: 4
Return Loss 35 db
Delay: 6 usec.

Two serial outputs (SMPTE 259M)

Power Consumption

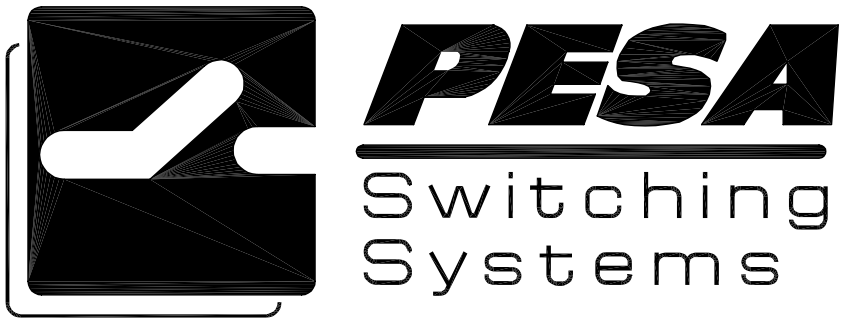
+8.9V 3.5 Watts
-8.9V 0.25 Watts

Input / Output Connections:



Revision History

Rev.	Date	Description	By
A	03-23-00	Initial release per ECO-3612.	J. Jones
B	03-06-01	Deleted Printing Specification per ECO CE00113.	G. Tarlton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