CONVERTER CARD PI-004

PARALLEL TO ANALOGUE YPBPR/RGB 10 BIT

INPUT	Parallel multiplexed component signals to CCIR Rec 656 SMPTE RP-125 coded.

Note. To ease interfacing into equipment data is latched by the rising edge of the clock.

Data rate	27 MHz
Data Set up time	3 ns min to positive edge of clock
Data hold time	2.5 ns min from positive edge of clock
Line standard	625/50 or 525/60 Auto detection

Analogue Output Characteristics

Output format	YPbPr / RGB	
Output levels	700 mV ±1%	
Output Impedance	75 Ohms ±1%	
Output return loss	> 40 dB to 5.5 MHz	
Resolution	10 bit	
Freq. Response	Luminance	< 0.1dB to 5.5 MHz
	Chrominance	< 0.1dB to 2.75 MHz
Group Delay Ripple	Luminance	±3 ns to 5.5 MHz
	Chrominance	±2 ns to 2.75 MHz
K-ratings	kp, kpb, kbar <0.4%	
Delay inequality	<10 ns between any component	
Noise	>70 dB rms to 5.5 MHz	

Mechanical Details

The following formats are available:

Format A	STD configuration with low profile pins and BNC connectors for outputs.
Format B	LOW profile pins and MCX connectors for outputs.
Format C	STAND-OFF configuration with BNC outputs.

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Connector Pinout

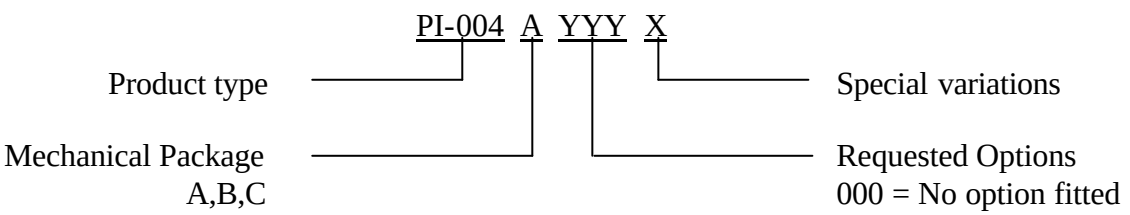
1 +5V	2 CLK	3 D0	4 D1	5 D2	6 D3	7 D4	8 D5	9 D6	10 D7	11 D8	12 D9
13 +5V	14 +5V	15 NC	16 NC	17 NC	18 NC	19 RESET	20 NC	21 NC	22 GND	23 GND	24 GND
25 NC	26 NC	27 NC	28 NC	29 NC	30 NC	31 NC	32 NC	33 NC	34 NC	35 S/ON	36 RGB
37 NC	38 NC	39 NC	40 NC	41 NC	42 NC	43 NC	44 NC	45 NC	46 ID0	47 ID1	48 ID2

D0 to D9	Parallel Data Bus D0 LSB , D9 MSB
CLK	Parallel Data clock
RGB	+5v=RGB output 0v=YPbPr output
SON	+5v=Sync on RGB/Y 0v= No sync
ID0,ID1,ID2	Card type identification code.

Card Type Identification code.

CARD TYPE	ID2	ID1	ID0
PI-004	+5v	0V	0V

Ordering codes



Note: This item is **NOT** aqueous washable.

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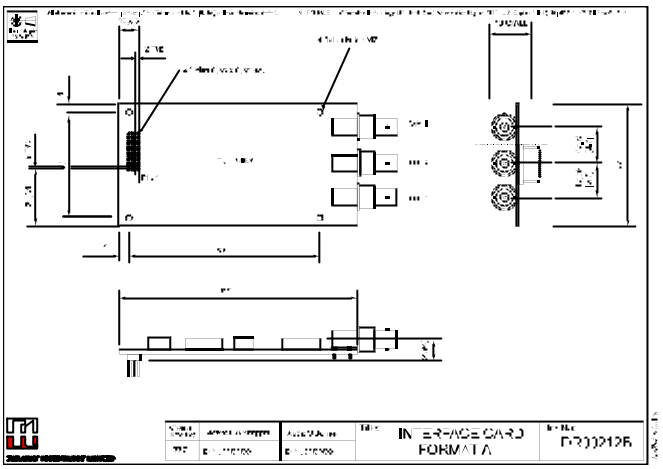
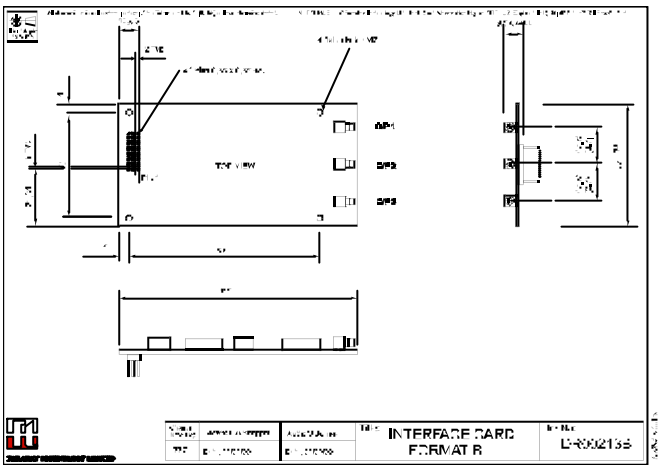
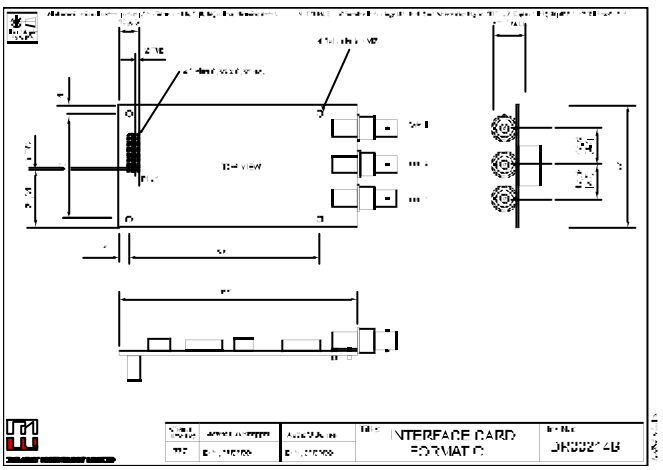
PACKAGE DETAIL







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