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BASEBAND DELAY LINE

GENERAL DESCRIPTION

The ILA4661 is an integrated baseband delay line circuit with one line delay. It is suitable for decoders with colour-difference signal outputs \pm (R-Y) and \pm (B-Y). Device is functionally identical to the TDA4661 Philips.

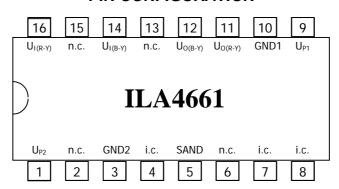
FEATURES

- Two comb filters, using the switched-capacitor technique, for one line delay time (64 μS)
- 3 MHz internal clock signal derived from a 6 MHz CCO, line-locked by the sandcastle pulse (64 μS line)
- Comb filtering functions for NTSC colour-difference signals to suppress cross-colour
- Clamping of AC-coupled input signals \pm (R-Y) and \pm (B-Y)

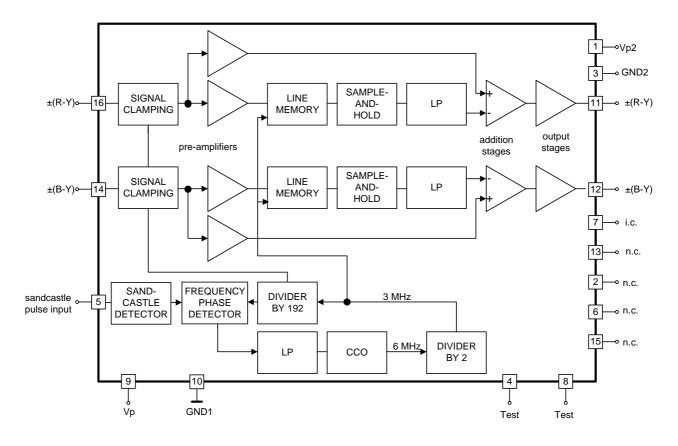
QUICK REFERENCE DATA

Parameter	Symbol	Type U _{VCC} =5.0 V		
		Min.	Type	Max
Analogy supply current, mA	lp1	-	-	6.0
Digital supply current, mA	lp2	-	-	1.0
Input fixing voltage (on pins 14 and 16), V	U _{14,16}	1.3	-	1.7
Output voltage (on pins 11 and 12), V	U _{11,12}	2.5	-	3.3
Output signal (peak-to peak value)				
± (R-Y) on pin 11	U ₀₁₁	-	1.05	-
± (B-Y) on pin 12	U ₀₁₂	-	1.33	-
Ratio of output amplitudes at equal input signals				
(U ₁₄ =U ₁₆ =1.33V), dB	U_{11}/U_{12}	-0.4	-	0.4
Ratio of output signals on pins 11 and 12 for				
adjacent time samples at constant input signals	U_n/U_{n+1}	-0.1	-	0.1
(U ₁₄ =U ₁₆ =1.33V), dB				
Gain for PAL and NTSC				
Gain for SECAM	Gv	5.3	-	6.3
(ratio U _O /U _I), dB		-0.6	-	0.4
Delay of delayed signals, μS	t_d	63.94	-	64.06
Delay of non-delayed signals, nS	t_{dn}	40	-	80
Transient time of delayed signal on pins 11				
respectively 12, nS	t _{tr}	-	350	-
Transient time of non-delayed signal on pins 11				
respectively 12, nS	t_{trn}	-	320	-
Noise voltage (RMS value; pins 11 and 12), mV	Un	-	-	1.2
Weighted signal-to-noise ratio, dB	S/N(w)	-	54	-

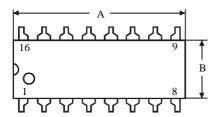
PIN CONFIGURATION

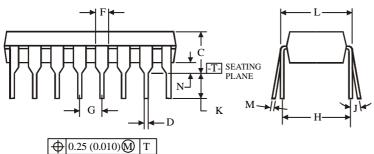


BLOCK DIAGRAM



N SUFFIX PLASTIC DIP (MS - 001BB)





NOTES:

Dimensions "A", "B" do not include mold flash or protrusions.
Maximum mold flash or protrusions 0.25 mm (0.010) per side.



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	Dimension, mm			
Symbol	MIN	MAX		
A	18.67	19.69		
В	6.1	7.11		
C		5.33		
D	0.36	0.56		
F	1.14	1.78		
G	2.54			
Н	7.62			
J	0°	10°		
K	2.92	3.81		
L	7.62	8.26		
M	0.2	0.36		
N	0.38			
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