

BASEBAND DELAY LINE

GENERAL DESCRIPTION

The KKA4661 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.

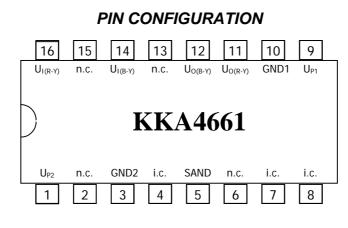
FEATURES

- Two comb filters, using the switched-capacitor technique, for one line delay time (64 μ S)
- 3 MHz internal clock signal derived from a 6 MHz CCO, line-locked by the sandcastle pulse (64 μ S 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)

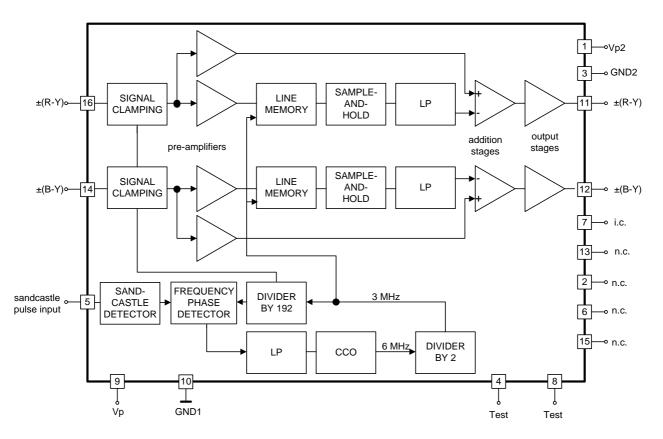
QUICK REFERENCE DATA

Parameter	Symbol	Type U _{VCC} =5.0 V		
		Min.	Туре	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)				
\pm (R-Y) on pin 11	U ₀₁₁	-	1.05	-
\pm (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	-

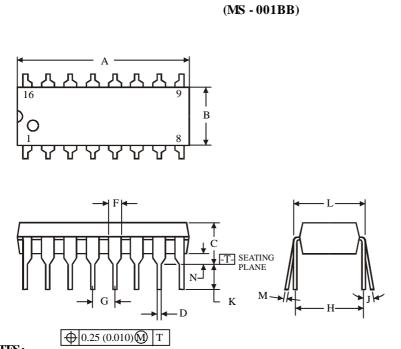




BLOCK DIAGRAM







N SUFFIX PLASTIC DIP

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	Dimension, mm		
Symbol	MIN	MAX	
Α	18.67	19.69	
В	6.1	7.11	
С		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	
М	0.2	0.36	
Ν	0.38		

NOTES:

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