

No. CB62H



**LB3500**

Monolithic Digital Integrated Circuit  
1/8 PRESCALER FOR PLL ELECTRONIC TUNING

The LB3500 is an ECL prescaler with 1/8 frequency division ratio developed for use in PLL electronic tuning FM radio application. Adoption of high performance bipolar process enables the frequency division of 150MHz max.

Features

- FM frequency can be divided into C-MOS operating frequency.
- Control pin is provided to inhibit the operation of prescaler when it is not in use.
- If used in conjunction with our PLL synthesizer LC7220, electronic tuning system can be formed.

Absolute Maximum Ratings at  $T_a=25^\circ\text{C}$

Maximum Supply Voltage	$V_{CCmax}$	8	V
Allowable Power Dissipation	$P_{dmax}$	200	mW
Operating Temperature	$T_{opg}$	-20 to +80	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-40 to +125	$^\circ\text{C}$

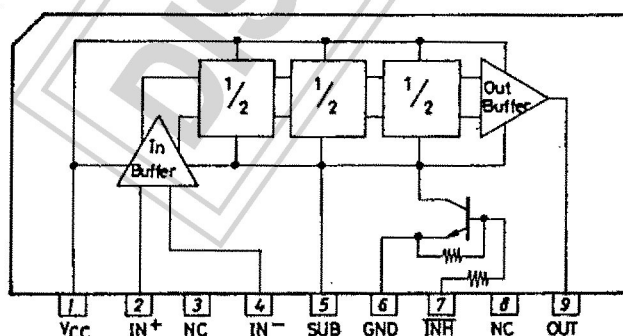
Allowable Operating Condition at  $T_a=25^\circ\text{C}$

		min	typ	max	unit
Supply Voltage Range	$V_{CC}$	4.5		5.5	V

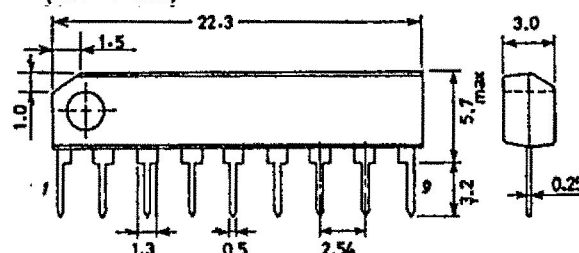
Electrical Characteristics at  $T_a=25^\circ\text{C}$

		min	typ	max	unit
Current Dissipation	$I_{CC}$		16	24	mA
Maximum Operating Frequency	$f_{max}$	150			MHz
Minimum Operating Frequency	$f_{min}$			30	MHz
Input Voltage Range	$V_{IN}$	100		600	mV <sub>rms</sub>
Output Amplitude	$V_{OUT}$	0.9			V <sub>p-p</sub>
INH Pin High Level Voltage	$V_{INH(H)}$	3		5.5	V

Equivalent Circuit Block Diagram and Pin Assignment



Case Outline 3017B-S9IC  
(unit:mm)

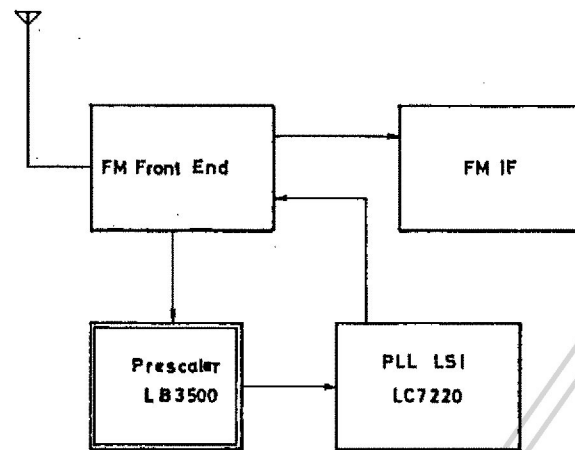


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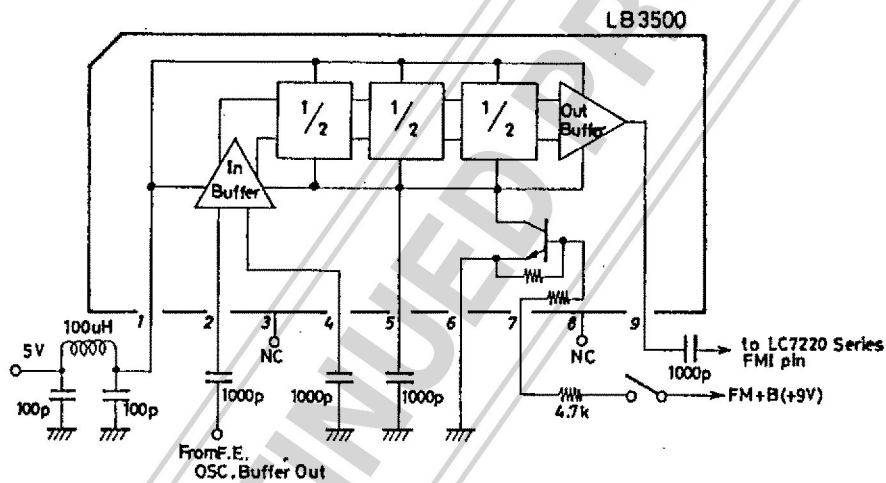
These specifications are subject to change without notice.

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## SANYO PLL Synthesizer Tuner System



## Application Circuit



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