

SANYO**SANYO Semiconductors****DATA SHEET**

LB3500 — 1/8 Prescaler for PLL Electronic Tuning

Monolithic Digital Integrated Circuit

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 $T_a=25^\circ\text{C}$

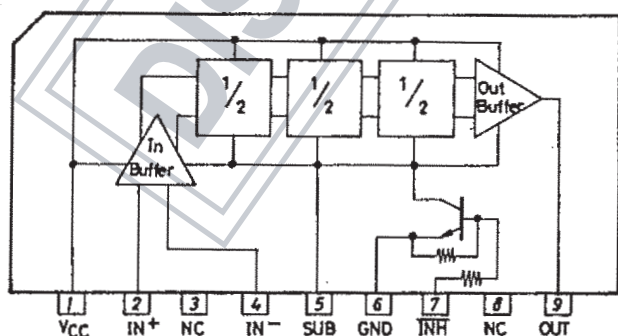
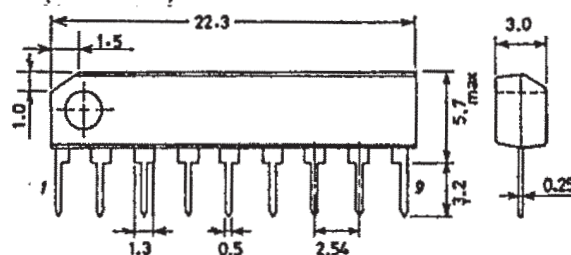
Maximum Supply Voltage	V_{CCmax}	8	V
Allowable Power Dissipation	P_{dmax}	200	mW
Operating Temperature	T_{opg}	-20 to +80	$^\circ\text{C}$
Storage Temperature	T_{stg}	-40 to +125	$^\circ\text{C}$

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 _{rms}
Output Amplitude	V_{OUT}	0.9		V _{p-p}
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)**

SANYO: SEP9

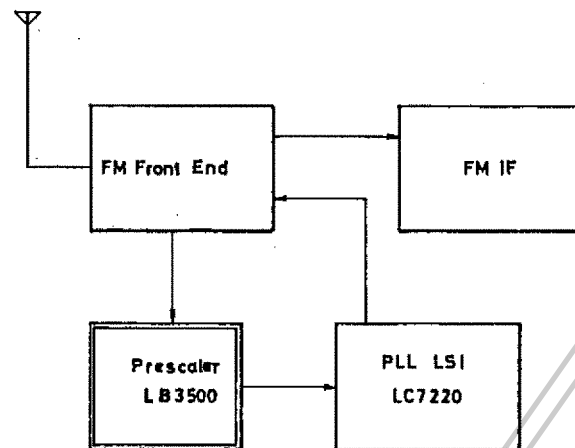
These specifications are subject to change without notice.

SANYO Electric Co., Ltd. Semiconductor Company

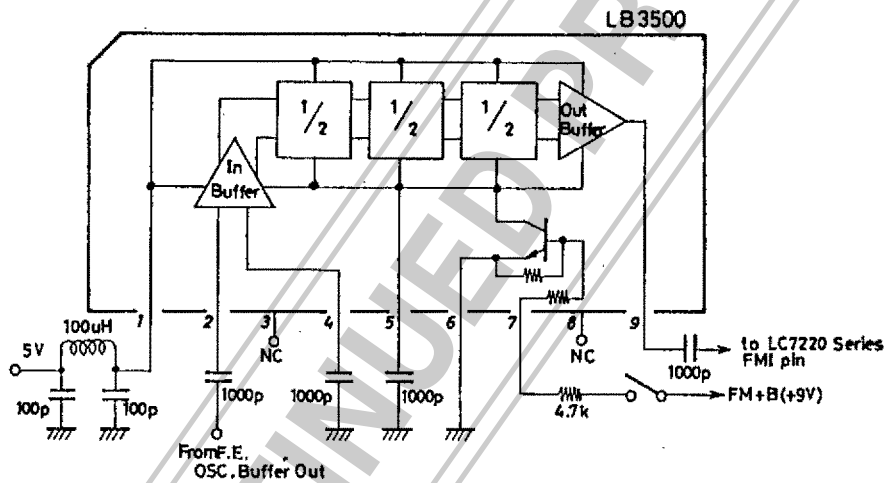
TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

5081KI No.862-1/2

SANYO PLL Synthesizer Tuner System



Application Circuit



Information furnished by SANYO is believed to be accurate and reliable. However, no responsibility is assumed by SANYO for its use; nor for any infringements of patents or other rights of third parties which may result from its use, and no license is granted by implication or otherwise under any patent or patent rights of SANYO.