



LC7210	c-mos LSI	CIRCUIT DRAWING No.4053
TUNING CIRCUIT OF PSL² ELECTRONIC TUNING SYSTEM		 3012A

Features

- Multiband reception (FM, MW, LW/FM, SW1, SW2/TV, FM, MW, etc.) is available with micro-computer control.
- 3 tuning methods of auto search, preset, manual.
- Tuning control of PLL synthesizer mode, SL² voltage synthesizer auto search mode, S curve AFC reception mode, local oscillation frequency count mode.
- Little harmonic interference to FM band due to low reference oscillation frequency of 32kHz.
- With FM-IF ceramic filter variation adjusting function provided ($\pm 150\text{kHz}/10\text{kHz}$ step fine adjustment), multirank ceramic filter can be used.
- Because of S curve AFC reception, PLL control step can be made small (10kHz step) by lowering comparison frequency ($f_{ref}=0.1\text{kHz}$: FM band) without regard to CN ratio at the time of PLL operation.
- +5V single power supply, C-MOS process, 28-pin DIP.

Functions

- SL² auto search control.
- PLL control (Number of frequency divisions FM: 39999 max., AM: 3999 max.).
- Analog switch for S curve AFC.
- Local oscillation frequency counter (Number of counts FM, AM: 39999 max./10ms).
- Data generation for FM band IF offset fine adjustment (5 bits).

LC7220, -1, -2, -3, -5, -6, -7	c-mos LSI	CIRCUIT DRAWING No.4054
PLL SYNTHESIZER TUNER AND CONTROLLER FOR FM/AM RADIO		 3025B 3026B

LC7220 series are PLL frequency synthesizer C-MOS LSIs designed for use in FM/AM 2-radio band radios. By using in conjunction with LB3500 (1/8 frequency division prescaler), electronic tuning system with 18-dot analog frequency display can be formed.

LC7220 series offer a choice of the following types according to destination and package.

Type No	Package	Area	Radio band	Frequency	Step	f _{ref}	IF
LC7220	DIP42S	U.S.A.	FM	87.5~108.1 MHz	200 kHz	6.25 kHz	+10.70, +10.75 MHz
LC7225	QIP64		AM(1)*	520~1610 kHz	10 kHz	10 kHz	+450 kHz
			AM(2)*	522~1611 kHz	9 kHz	9 kHz	+450 kHz
LC7221	DIP42S	Japan	FM	76.0~90.0 MHz	100 kHz	6.25 kHz	-10.70, -10.65 MHz
LC7226	QIP64		AM	522~1611 kHz	9 kHz	9 kHz	+450 kHz
LC7223	DIP42S	Japan	FM	76.0 to 90.0 MHz	100 kHz	6.25 kHz	-10.70, -10.65MHz
			AM	522 to 1629 kHz	9 kHz	9 kHz	+450kHz
LC7222	DIP42S	Europe (U.S.A.)	FM	87.5~108.1 MHz	50 kHz	6.25 kHz	+10.70, +10.75 MHz
LC7227	QIP64		AM(1)*	520~1610 kHz	10 kHz	10 kHz	+450 kHz
			AM(2)*	522~1611 kHz	9 kHz	9 kHz	+450 kHz

*: AM(1) or AM(2) is selected by changing pin connection.

- Package Number: 3025B (LC7220, 7221, 7222, 7223), 3026B (LC7225, 7226, 7227)