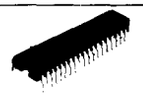
LC7250

c-mos LSI

CIRCUIT DRAWING No.4055

FOR DIGITAL DISPLAY OF CLOCK/FREQUENCY


3014A

Use

FM/AM receiving frequency display for automobile radio and table top radio.

- FM/AM receiving frequency display (4 digits).
- Time display (hour-minute).
- Date or stop watch display (selectable either of these).

Features

- 1 chip C-MOS LSI for static displaying.
- Driving ability of green LED directly (15mA max).
- Digital display of FM/AM receiving frequency in a receiver set using varactor diode, variable capacitor or L tuning system, processing FM/AM local oscillation signal.
- Changeable between frequency and time display.
- AM IF frequency is selectable among 4 frequencies:
  +262.5, +452.5, +455, +470 kHz
- FM IF frequency is selectable between 2 frequencies: +10.7, −10.7 MHz.
- Able to adjust frequency error finely between FM/AM receiving and real frequency independently.
  - AM IF frequency error is adjustable within ±2.8kHz by a variable resistor.
  - FM IF frequency error is adjustable within ±140kHz by a variable resistor.
- Selectable between 12 hour display with PM sign and 24 hour display.
- Settable easily to a radio time signal.
- Programed on the usual months and the longer months (February is set to 29 days).
- Stop watch can count and display from 0 hours 00 minutes 00 seconds to 12 hours 59 minutes 59 seconds.
- Inhibit pin is available, which inhibits from time setting keeping display blanked.
- 4 MHz crystal is used as a reference frequency.

LC7265,7266

c-mos LSI

CIRCUIT DRAWING No.4056

RECEIVED FREQUENCY DISPLAY FOR RADIO RECEIVERS


3029A

Applications

- Displays received frequency in radio receivers.

Features

- Displays received frequency of each band of FM, MW, LW
  LC7265: LED static display
  LC7266: FL static display
- Counts local oscillation frequency and displays received frequency.
- Number of display digits: FM — 5 digits, MW — 4 digits, LW — 3 digits.
- Covers intermediate frequencies shown below.
  FM: +10.700, +10.725, +10.750, +10.675 MHz
  -10.700, -10.725, -10.675, -10.650 MHz
  MW,LW: +450kHz — 10kHz step display
  +450kHz — 1kHz step display
  +455kHz — 1kHz step display
  +469kHz — 1kHz step display
- Contains blanking circuit to turn off display.
- Contains hold circuit to hold display contents.
- Uses crystal resonator having 7.2MHz reference frequency.
- Uses LB3500 (+8 prescaler) jointly at the time of FM reception.
- Supply voltage V_{DD}: 4.5V to 10V
- Package: DIP42S

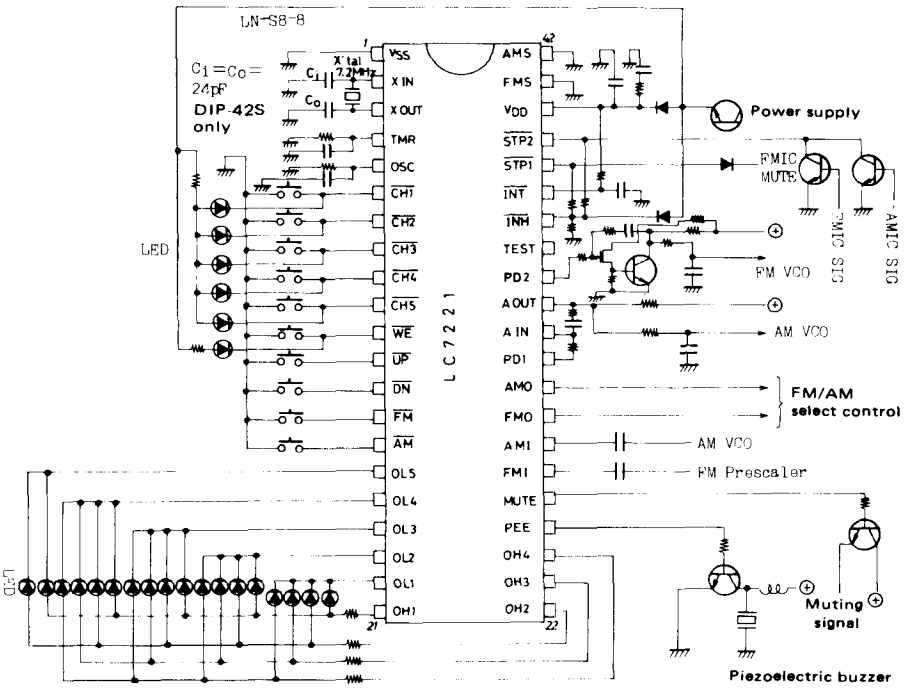
DIGITAL FREQUENCY DISPLAY APPLICATIONS (monolithic integrated circuit)

Type Number	Page	Case			Circuit Drawing No.	Circuit Functions & Applications	Main Specifications
		Package	Pins	Package No.			
LC7250	223	DIP	42	3014A	4055	4-Digit Frequency Display with Clock Function (LED Use)	Reference frequency 4MHz, used jointly with 1/100 prescaler, FM/MW/LW, static display, clock
LC7265	223	DIP	28S	3029A	4056	5-Digit Frequency Display (LED Use)	Reference frequency 7.2MHz, used jointly with 1/8 prescaler (LB3500), FM/MW/LW, static display
LC7266	223	DIP	28S	3029A	4056	5-Digit Frequency Display (FLT Use)	Reference frequency 7.2MHz, used jointly with 1/8 prescaler (LB3500), FM/MW/LW, static display
LC7267	224	DIP	42S	3025B	4057	5-Digit Frequency Display with Clock Function (LED Use)	Reference frequency 7.2MHz, used jointly with 1/8 prescaler (LB3500), FM/MW/LW, static display, clock
LC7268	224	DIP	42S	3025B	4057	5-Digit Frequency Display with Clock Function (FLT Use)	Reference frequency 7.2MHz, used jointly with 1/8 prescaler (LB3500), FM/MW/LW, static display, clock

FM MULTIPLEX STEREO DEMODULATORS (monolithic integrated circuit)

Type Number	Page	Case			Circuit Drawing No.	Circuit Functions & Applications	V_{CC} [V]	Icco [mA]	Sep [dB]	Main Specifications
		Package	Pins	Package No.						
LA3330	124	DIP	16	3006A	2050	3V Portable Radio, Radio Cassette Applications	3	5	40	Reduced voltage 1.8Vmin, lamp lighting level 4.5mV
LA3330M	124	MFP	20	3036B	2050	3V Portable Radio, Radio Cassette Applications	3	5	40	Reduced voltage 1.8Vmin, lamp lighting level 4.5mV
LA3350	125	DIP	16	3006A	2049	PLL FM MPX Stereo Demodulator	8to12	16	42	Lamp lighting level 6.5mV, input resistance 20kΩ
LA3361	125	DIP	16	3006A	2051	PLL FM MPX Stereo Demodulator for FM Portable Stereo	6	8.5	45	Forced mono and VCO stop with a single pin
LA3365	125	SEP	16	3020A	2052	PLL FM MPX Stereo Demodulator for FM Car Radio	6	8.5	45	Forced mono and VCO stop with a single pin
LA3370	126	SEP	16	3020A	2053	PLL FM MPX Stereo Demodulator for FM Car Radio	6.5to14	21	50	Stereo noise controller, high cut controller
LA3373	125	DIP	16	3006A	2054	Pilot Canceler-Provided PLL FM MPX Stereo Demodulator for FM Car Radio System Component	6.5to14	22	50	LA3370 + pilot canceler
LA3375	126	SEP	16	3020A	2055	Pilot Canceler-Provided PLL FM MPX Stereo Demodulator for FM Car Radio System Component	6.5to14	22	50	LA3370 + pilot canceler
LA3376	127	SEP	16	3020A	2054	Pilot Canceler-Provided PLL FM MPX Stereo Demodulator for FM Car Radio System Component	6.5to14	22	50	LA3375 + forced mono of reception mode
LA3376M	127	MFP	20	3036B	2054	Pilot Canceler-Provided PLL FM MPX Stereo Demodulator for FM Car Radio System Component	6.5to14	22	50	LA3375 + forced mono of reception mode

4054:LC7220,7221,7222,7223,7225,7226,7227
APPLICATION
(LC7221: FM IF=10.70MHz)



4055:LC7250
APPLICATION