7997076 SANYO SEMICONDUCTOR CORP

760 01850

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LA3376,3376M

monolithic linear IC

CIRCUIT DRAWING No.2054

PILOT CANCELER-PROVIDED PLL FM MPX STEREO DEMODULATOR



The LA3376 is a multiplex IC for use in car stereo applications. It contains 2 functions of skip noise control and pilot cancel and is packaged in 16-pin SEP. The LA3376M is a miniflat package version of the LA3376M.

Functions

- Pilot canceler (Level follow-up type)
- Stereo noise controller (SNC function)
- High-cut controller (HCC function)
- Automatic selection between stereo and monaural
- VCO oscillation stop
- Forced monaural function (stereo lamp off, pilot cancel and HCC function hold) of reception mode is realized by cutting off pin 10 from VCC.

Features

- Low distortion (0.05% typ 300mV input mono)
- Good ripple rejection of power supply (35dB typ)
- Wide supply voltage range (VCC = 6.5 to 14V)
- Good space factor due to single-end package
- Easy to draw printed circuit pattern due to pin-to-pin space of 3mm

LA3400

monolithic linear IC

CIRCUIT DRAWING No.2057

VCO NON-ADJUSTING PLL FM MPX STEREO DEMODULATOR WITH FM ACCESSORIES



The LA3400 is a multifunctional MPX demodulator IC designed for FM stereo electronic turning. It features the VCO non-adjusting function that eliminates the need to adjust free-running frequency of VCO and the accessory functions such as AM/FM input, AM/FM changeover, muting.

Applications

■ Home stereos, portable hi-fi sets

Functions

- VCO non-adjusting function.
- PLL MPX stereo demodulator.
- Gain variable type post amp.
- FM ←→ AM changeover.
- Muting at the FM

 AM changeover mode (changeover mute)
- Muting function.
- Drive pin for external muting.
- VCO stop function.
- Separation adjust function.
- Muting at the VCC—ON mode.

Features

- Non-adjusting VCO: Eliminates the need to adjust free-running frequency.
- Good temperature characteristic of VCO: ±0.1% typ. for ±50 deg change.
- Low distortion: 1kHz 300mV input mono 0.006% typ.

main 0.02% typ.

- High S/N: 91dB typ. (mono 300mV input LPF).
 - 92dB typ. (mono 300mV input, IHF BPF).
- High voltage gain: Approximately 8.5dB (Common to FM, AM at standard constants)

This gain can be varied by external constants.

- Wide dynamic range: Distortion 1.0% typ. at mono 800mV 1kHz input.
- The semifixed resistor (pin 4) for separation adjust can be changed to a fixed resistor or can be removed.
- Good ripple rejection of power supply: 34dB typ.