



AM Tuner for Car Radio

Overview

The LA1130 is an IC developed for AM tuner systems in car radio applications. It provides low-level local oscillation so that it can be applied in varactor diode tuning applications as well as μ tuning applications.

Functions

- RF amplification
- MIX
- OSC (with ALC)
- IF amplification
- Detection
- AGC (normal)
- RF wide-band AGC
- Others

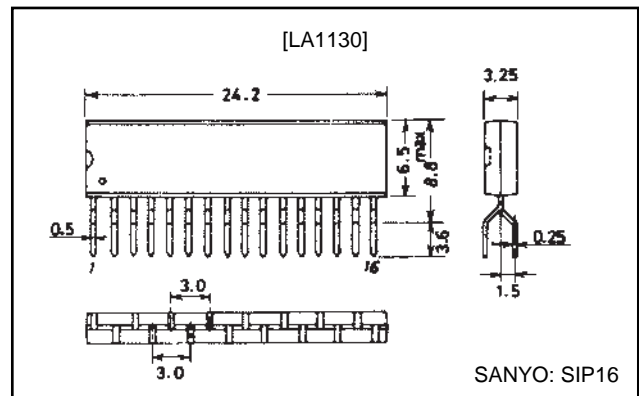
Features

- Good space factor due to single-end package.
- Easy to design printed circuit pattern due to 3mm-pitch pin interval.
- Double-balanced type MIX : Improvement in IF interference, spurious interference.
- Normal AGC : Less variation in detector output to input.
- RF wide-band AGC : Improvement in cross modulation distortion, especially strong input characteristics in varactor diode tuning applications because of low operating level (300mVrms).
- AGC drive output for FET : Possible to apply AGC to FET at input stage in varactor diode tuning applications.
- ALC at OSC stage : Improvement in tracking error due to stabilized low-level (350mVrms) oscillation output in varactor diode tuning applications.
- Reference voltage output : Possible to use 5.6V reference voltage for other bias (FET, etc.).
- VCC variation compensation : Less variation in gain, distortion, etc. (7.5 to 16V)
- Less ripple voltage : Less modulation of carrier by supply voltage ripple.
- Low pop noise : Possible to reduce pop noise at the time of VCC-on, mode-on by selecting AGC time constant.

Package Dimensions

unit: mm

3020A-SIP16



Equivalent Circuit Block Diagram

