



New Japan Radio Co., Ltd.

Providing high quality image and space saving of Car-Navigation System by 8-line image inputs

New Japan Radio releases the NJW1341, 8-input 2-output video switch with isolation amplifier and 47uF output capacitor video amplifier

August 26, 2009 - New Japan Radio Co., Ltd. has introduced to the market, the NJW1341, 8-input 2-output video switch with isolation amplifier, 47uF output capacitor video amplifier suitable for the equipments with multi-input such as car-navigation systems and security systems.

[Background of development]

Recently, the increasing of vehicle onboard camera, DVD player, and portable digital audio player's popularity demands for multi input video switch suitable for car-navigation systems. To meet these needs, New Japan Radio developed the NJW1341 that offers multi-input of car-navigation systems. And it is a video switch including isolation amplifier and video amplifier that can reduce the common mode noise occurs between external equipment and car-navigation system.

[Features]

The NJW1341 consists of 8-input, 2-output video switch, isolation amplifier (2-line), a video amplifier compatible with 47uF output capacitor (1-line).

No.1 8-input and 2-output video switch meets the increasing of input sources to the equipments

8-input of the NJW1341 meets the increasing of input sources to car-navigation systems such as vehicle onboard camera etc. And it's 2-output is suitable for car equipped front-monitor and rear-monitor.

No.2 Providing noise reduction and high quality image by isolation amplifier

Two inputs with isolation amplifiers suitable for noise reduction, provides high quality image.

No.3 Providing space saving of the equipment by output capacitor miniaturizing

There are some problems as to output coupling capacitor-less video switch, such as electrical short destruction at output terminal, destruction at output terminal by incompatible of connecting equipments and noise occurred from built-in charge pump circuit. Reliability focus manufacturers employ conventional large output capacitor (470uF to 1000uF) video amplifier with high reliability but needs large space on the board.

The NJW1341 can use small output capacitor (47uF) by ASC (Advanced SAG Correction) Technology, and provides space saving of the equipments.

[Others]

I²C BUS Interface

[Application]

Car-Navigation System

Security System

[Features & Characteristics]

Operating Voltage : 4.5V to 9.5V

8-input,2-output video switch

Small output capacitor 47uF, 75-ohm driver(1line)

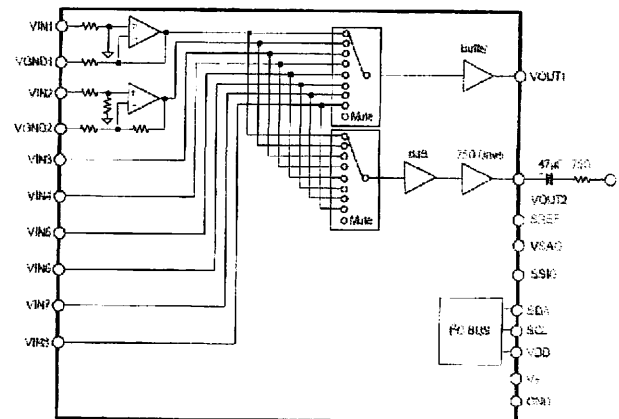
Isolation amplifier (2-input)

Common Mode Rejection Ratio : -50dB typ.

Bi-CMOS Technology

I²C BUS Interface

Package Outline : SSOP-20-C3 (6.5 × 6.4 × 1.25mm typ.)



Schedule

Engineering Samples (ES) : already available from July 2009

Mass Production (MP) : October 2009

distributed by:

Switches Plus



1 300 785 911