



New Japan Radio Co., Ltd.

Providing space saving and high reliability of video signal circuit by simple 3dB video amplifier IC

New Japan Radio releases the NJM41030, 3dB video amplifier IC

August 26, 2009 - New Japan Radio Co., Ltd. has introduced to the market, the NJM41030, 3dB video amplifier IC, which realizes space saving and high reliability of video signal processing circuit in TV and Car-Navigation System.

[Background of development]

In video signal processing circuit of TV and car-navigation system, the video signal is usually handled as "1Vp-p amplitude". Therefore, the input signal to ADC*1 is required 1Vp-p amplitude. But sometimes there are DACs with 0.7Vp-p amplitude output signal. In that case, discrete circuit of 3dB amplifier is added, to convert 0.7Vp-p amplitude signal to 1Vp-p. New Japan Radio Co., Ltd. has developed the NJM41030, 3dB video amplifier IC to clear this inconvenience.

*1 ADC:(Analog Digital Converter)

[Features]

No.1 Providing high reliability and space saving of the equipments

Employing the NJM41030, 3dB video amplifier IC, instead of conventional discrete circuit realizes reducing the number of parts, high reliability and 50 percent space reduction.

No.2 Providing stable gain

In discrete circuit, the deviation of gain is occurred by precision of resister used in the circuit. The NJM41030 provides the stable gain because of it's precision of resister built in chip.

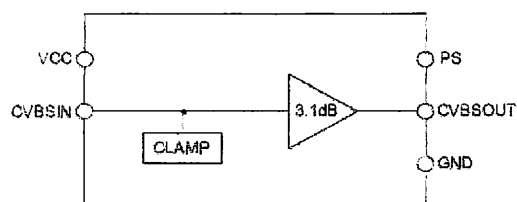
[Others]

Built-in clamp circuit

[Application]

TV

Car-Navigation System



Features & Characteristics

Operating Voltage : 4.5V to 5.5V
 Operating temperature range : -40 to 85 degrees centigrade
 3.1dB Amplifier : 560-ohm load driving
 Frequency Characteristics : 0dB at 1MHz
 Built-in clamp circuit
 Built-in power save circuit
 Bipolar Technology

Package Outline : SOT-23-6 [MTP6] (2.9 × 2.8 × 1.2mm typ.)

Schedule

Engineering Samples (ES) : already available from July 2009
 Mass Production (MP) : October 2009

distributed by:



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