

## Single Supply, Rail-to-Rail Output Quad Operational Amplifier

### ■GENERAL DESCRIPTION

NJM2747 is a low noise Rail-to-Rail Output quad operational amplifier.

Rail-to-Rail Output function provides wide dynamic range, is from ground to power supply level. And Input range rails from ground level.

It is suitable for audio section of portable sets, PCs and any General-purpose applications.

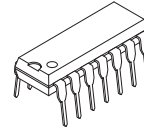
NJM2747SCC is available in the small PCSP package, which saves space on printed circuit boards and suitable for small portable devices.

### ■FEATURES

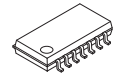
- Operating Voltage 2.5V to 14V
- Rail-to-Rail Output  $V_{OH} \geq 4.9V$  Typ. (at  $V^+=5V, R_L=5k\Omega$ )  
 $V_{OL} \leq 0.1V$  Typ. (at  $V^+=5V, R_L=5k\Omega$ )
- Offset Voltage 1mV Typ.
- Slew Rate 3.5V/ $\mu$ s Typ.
- Low Distortion 0.001% Typ. (at  $V^+=5V, f=1kHz$ )
- Low Input Voltage Noise 10nV/ $\sqrt{Hz}$  Typ. (at  $f=1kHz$ )
- Bipolar Technology
- Package Outline

NJM2747D	DIP14 (Lead insertion type)
NJM2747M	DMP14 (Surface mount type)
NJM2747V	SSOP14 (Surface mount type)
NJM2747SCC	PCSP20-CC (Surface mount type very small size package)

### ■PACKAGE OUTLINE



NJM2747D



NJM2747M



NJM2747V



NJM2747SCC