

# NJRC's OPamp Line-up, featuring the NJU704x series

**NJR**  
**NEWS**

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## NJU704x series

### NJRC C-MOS OPamp series

This newsletter talks about NJRC'S C-MOS I/O Full-swing/High Drive OPamp, the NJU7040/43/44/45.

#### ■ FEATURES

- Low Operating Voltage
- **Input / Output Full-Swing**
- **High Output Current**
- **High Input Impedance**
- **Low Input Bias Current**
- C-MOS Technology
- Various Package Line-up

About detail, please see below table.

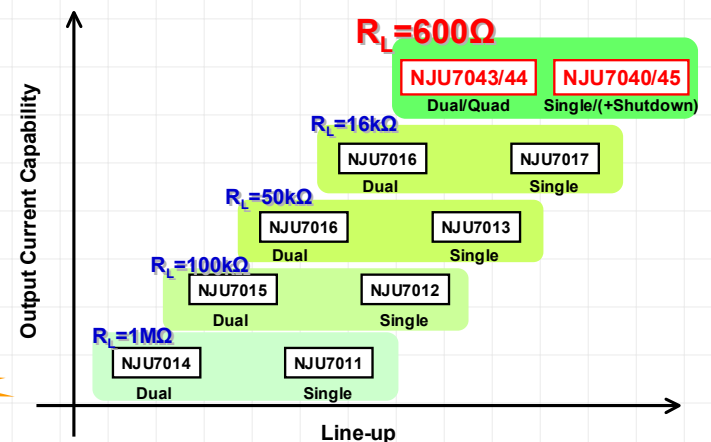
**Comparison Table NJU704x series**

	NJU7040	NJU7043	NJU7044	NJU7045
Circuit Number	single	dual	quad	single
Operating Voltage	2.2V to 5.5V	1.8V to 5.0V		2.2V to 5.5V
Input Full-Swing	$V_{cm} = 0V$ to $5.0V$ @ $V^+=5V$			
Output Full-Swing	$VOH > 4.95V$ / $VOL < 0.05V$ @ $V^+=5V$ , $RL=10k\Omega$			
Operating Current	450 $\mu$ A	600 $\mu$ A	1.8mA	450 $\mu$ A
Load Drivability	$VOH > 4.9V$ / $VOL < 0.1V$ @ $V^+=5V$ , $RL=600\Omega$	$VOH > 2.9V$ / $VOL < 0.1V$ @ $V^+=3V$ , $RL=600\Omega$	$VOH > 4.9V$ / $VOL < 0.1V$ @ $V^+=5V$ , $RL=600\Omega$	
High Input Impedance	1T $\Omega$ (typ.)			
Low Input Bias Current	1pA (typ.)			
Slew Rate	0.8V / $\mu$ s	0.7V / $\mu$ s	0.8V / $\mu$ s	
Package	SOT-23-5	DIP8 DMP8, EMP8(UD), SSOP8, TVSP8	DIP14, DMP14, EMP14 (UD), SSOP14	SOT-23-6, TVSP8, EMP8(UD)
Other	-	-	-	- /w Shut Down SW

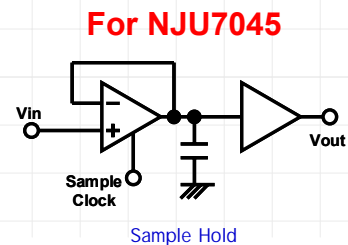
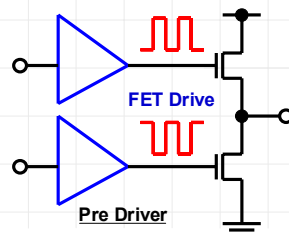
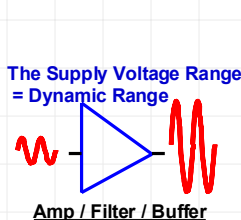
#### ■ APPLICATIONS

Battery Management Applications,  
Portable Audio Applications,  
Sensor Amp,  
and so on.

**C-MOS OPamp: The full swing ability comparison**



#### ■ EXAMPLE APPLICATION CIRCUITS



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