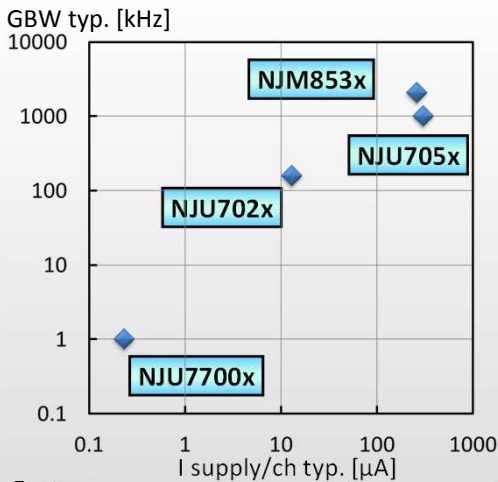
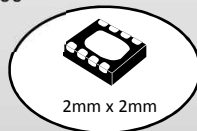


Low Power CMOS Op-Amp Series

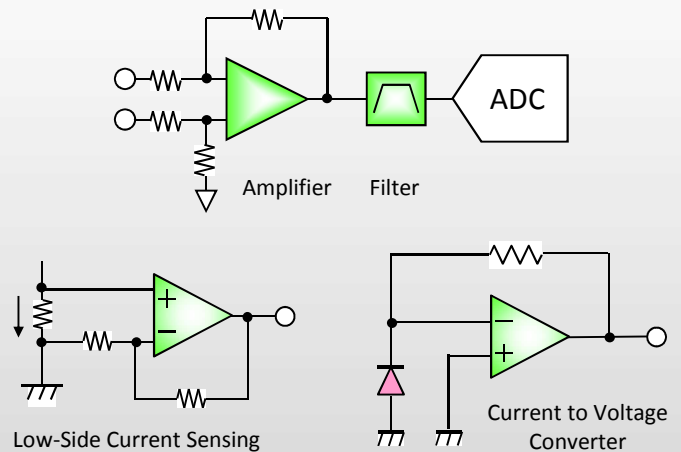


Features

- RF-Noise Immunity
- 2mm x 2mm DFN(ESON) Package



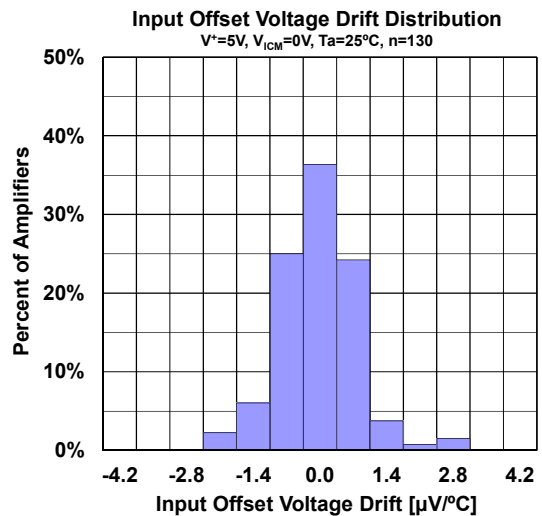
Applications



NJU7056, NJU7057, NJU7058

Low Noise, Low Offset Drift, Rail-to-Rail Out CMOS Op-Amp

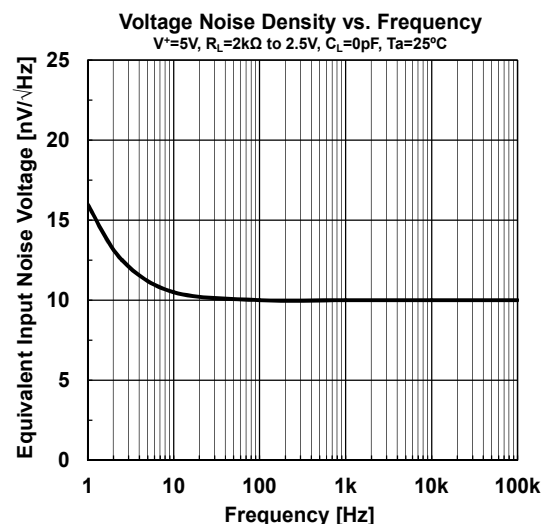
- Offset Voltage Drift: 0.7µV/°C typ.
- Voltage Noise: 15nV/√Hz
- Supply Current: 260µA/ch typ.
- GBW: 2.1MHz.
- RF-Noise Immunity
- Supply Voltage: 1.8V to 5.5V
- Offset Voltage: 4mV max.
- Operating Temperature: -40 to 125 °C
- Package
 - NJU7056F/F3 [Single] SOT-23-5, SC-88A(SC-70)
 - NJU7057RB1/KU1 [Dual] MSOP8(TVSP8)
 - DFN8(ESON8: 2020)
 - NJU7058V [Quad] SSOP14



NJM8530, NJM8532, NJM8534

14V, 10nV/√Hz, 300µA/ch, Rail-to-Rail In/Out Op-Amp

- Supply Voltage: 1.8V to 14V
- Voltage Noise: 15nV/√Hz
- Supply Current: 300µA/ch typ.
- GBW: 1MHz.
- Slew Rate: 0.4V/µs
- Capacitive Load Drive: 1000pF
- Offset Voltage: 4mV max.
- Operating Temperature: -40 to 125 °C
- Package
 - NJM8530F [Single] SOT-23-5
 - NJM8532M/V/RB1 [Dual] DMP8, SSOP8, MSOP8(TVSP8)
 - NJM8534V [Quad] SSOP14



Low Power CMOS OP-AMP Series

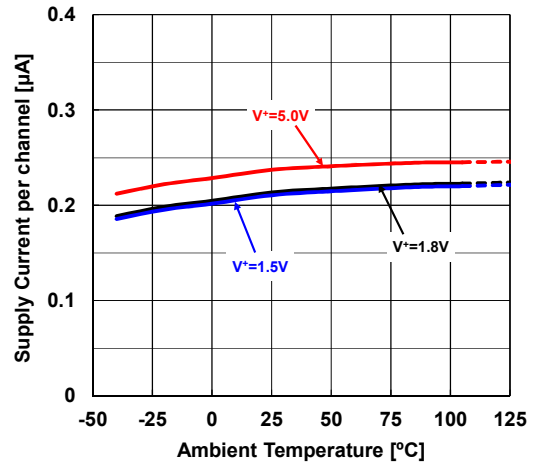
NJU77000, NJU77001, NJU77002, NJU77004

0.23µA/ch, Ultralow Power, Rail-to-Rail In/Out CMOS Op-Amp

- Supply Current : 0.23µA typ. World's best!
- Offset Voltage: 1.0mV max. (A Grade)
- Offset Voltage Drift: 0.65µV/°C typ.
- RF-Noise Immunity
- Rail-to-Rail In/Out
- Supply Voltage: 1.5V to 5.5V
- Operating Temperature: -40 to 105 °C
- Package

NJU77000F/F3 [Single] SOT-23-5, SC-88A(SC-70)
 NJU77002E/RB1/KU1 [Dual] SOP8, MSOP8(TVSP8)
 DFN8(ESON8:2020)
 NJU77004V [Quad] SSOP14

Supply Current per channel vs. Temperature
 $G_V=0dB, V_{CM}=V^*/2$



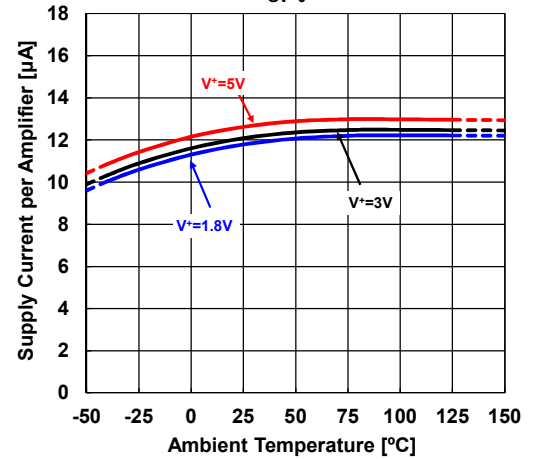
NJU7026, NJU7027, NJU7028

13µA/ch, Rail-to-Rail Out CMOS Op-Amp

- Supply Current : 13µA typ.
- RF-Noise Immunity
- Supply Voltage 1.8V to 5.5V
- Gain Bandwidth Product: 160kHz
- Offset Voltage: 4mV max.
- Offset Voltage Drift: 1.5µV/°C typ.
- Rail-to-Rail Output
- Operating Temperature: -40 to 105°C
- Package

NJU7026F/F3 [Single] SOT-23-5, SC-88A(SC-70)
 NJU7027RB1/KU1 [Dual] MSOP8(TVSP8), DFN8(ESON8:2020)
 NJU7028V [Quad] SSOP14

Supply Current per Amplifier vs. Temperature
 $G_V=0$



Electrical Characteristics Table

| Part No. | ch | Rail-to-Rail | RF immunity | Supply Voltage | | I _{cc} /ch (typ.) mA | V _{IO} (max.) mV | V _{IO} Drift (typ.) µV/deg | I _b (typ.) nA | I _{sc} *3 (typ.) mA | SR (typ.) V/µs | GBW (typ.) MHz | en (typ.) nV/√Hz | Package/Pin | | | | | | | | Notes | | |
|------------------|----|--------------|-------------|----------------|------------|-------------------------------|---------------------------|-------------------------------------|--------------------------|------------------------------|----------------|----------------|------------------|-------------|-----|-----|-------|------|------|------|--------|-------|------|-------|
| | | | | Rating V | V | | | | | | | | | DIP | DMP | SOP | (EMP) | SSOP | MSOP | MSOP | (TVSP) | | DFN8 | SOT23 |
| Low power | | | | | | | | | | | | | | | | | | | | | | | | |
| NJU77000 | 1 | | | | | 0.00029 | 1.8 | | | | 0.0008 | 0.0011 | 600 | | | | | 5 | | | | | | |
| NJU77000A | 1 | | | | | | 1.0 | | | | | | | | | | | 5 | 5 | | | | | |
| NJU77001 | 1 | I/O | O | 7 | 1.5 to 5.5 | | 1.8 | 0.65 | 0.001 | 10 | | | | | | | | | | | | | | |
| NJU77001A | 1 | | | | | | 1.0 | | | | | | | | | | | | 5 | 5 | | | | |
| NJU77002 | 2 | | | | | | 2.0 | | | | | | | | | | | | | | | | | |
| NJU77002A | 2 | | | | | | 1.3 | | | | | | | | | | | | | | | | | |
| NJU77004 | 4 | | | | | 0.00023 | 2.2 | | | | 0.0007 | 0.001 | 700 | | | 8 | | | | | | | | |
| NJU77004A | 4 | | | | | | 1.5 | | | | | | | | | | | | | | | | | |
| NJU7026 | 1 | | | | | | | | | | | | | | | | | 5 | 5 | | | | | |
| NJU7027 | 2 | OUT | O | 7 | 1.8 to 5.5 | 0.013 | 4 | 1.5 | 0.001 | 15 | 0.05 | 0.16 | 60 | | | | | | | | | | | |
| NJU7028 | 4 | | | | | | | | | | | | | | | | | | | | | | | |
| Low Noise | | | | | | | | | | | | | | | | | | | | | | | | |
| NJM8530 | 1 | | | | | 0.32 | | | | | | | | | | | | 5 | | | | | | |
| NJM8532 | 2 | I/O | | 15 | 1.8 to 14 | 0.29 | 5 | 1.5 | 50 | 10 | 0.4 | 1 | 10 | | 8 | 8 | 8 | | | | | | | |
| NJM8534 | 4 | | | | | 0.3 | | | | | | | | | | | | | | | | | | |
| NJU7056 | 1 | | | | | | | | | | | | | | | | | 5 | 5 | | | | | |
| NJU7057 | 2 | OUT | O | 7 | 1.8 to 5.5 | 0.26 | 4 | 0.7 | 0.001 | 45 | 0.8 | 2.1 | 15 | | | | | | | | | | | |
| NJU7058 | 4 | | | | | | | | | | | | | | | | | | | | | | | |



For further information, visit us at:

<http://www.njr.com/>

Contact NJR Corporation

2107 North First Street, Suite 350 San Jose CA 95131
 Phone : 408-321-0200 Fax : 408-232-6060
 Mark Wilcox : mark@njr.com
 Ted Shinohara : ted@njr.com

1. Specifications and product descriptions in this document are subject to change at any time, without notice.
 2. Contact your local office or your distributor to obtain the latest specifications before placing your product order.
 3. For details, please see product data sheets.