

## High performance LDO sample kit



### Features

- Immediate evaluation of high performance LDO with samples of 18 low-dropout (LDO) linear regulators
- The high performance LDO sample kit includes a printed card providing:
  - High performance product overview
  - Package range
  - Resources: ST VREG Finder mobile application, LDO quick reference guide.

### Description

The KITLDO0221 provides a selection of high performance LDO regulators, useful for evaluation and promotion of the product family.

#### Product status link

[KITLDO0221](#)

#### Resources

[ST VREG Finder mobile application](#)  
[LDO quick reference guide](#)

## 1 Overview

STMicroelectronics offers a wide selection of fixed and adjustable linear voltage regulators.

In addition to a complete portfolio of industry [standard regulators](#) for both positive and negative output, ST offers an ever-expanding range of high performance [LDO regulators](#) addressing all the major trends in the industry.

Among our products, the optimal combination of low-dropout voltage and quiescent current can be found, for the highest efficiency design or dynamic performance for the best transient response, ripple rejection and low noise.

All this coupled with a choice of the smallest form factor packages for size sensitive applications.

**Table 1. Device summary**

| Product        | Package      | Description   |
|----------------|--------------|---|
| LD39100PUR     | DFN6 3x3     | 1 A, low quiescent current, low noise                           |
| LD39130SJ33R   | Flip-Chip 4  | 300 mA, ultra low quiescent current with automatic green mode   |
| LD39200PUR     | DFN6 3x3     | 2 A, ultra low drop, high PSRR, with reverse current protection |
| LD56050DPU105R | DFN4 1.2x1.2 | 500 mA, ultra low drop with bias supply                         |
| LD56100DPU30R  | DFN8 1.2x1.3 | 1 A, very low drop and ultra low noise                          |
| LD57100JR      | Flip-Chip 6  | 1 A, ultra low drop with bias supply                            |
| LD59030TPU30R  | DFN4 1x1     | 300 mA, low IQ, ultra low drop and high PSRR                    |
| LD59100PUR     | DFN8 3X3     | 1 A, ultra low drop, with reverse current protection            |
| LDBL20-18R     | ST STAMP™    | 20 mA, low quiescent current and high PSRR in ST STAMP™         |
| LDFPVR         | DFN6 2x2     | 1 A, very low drop, 16 V input compatible                       |
| LDK130PU-R     | DFN6 1.2x1.3 | 300 mA, low quiescent current and low noise                     |
| LDK320AM30R    | SOT23-5L     | 200 mA, ultra low quiescent current, high PSRR, 18 V input      |
| LDL112PV33R    | DFN6 3x3     | 1.2 A, ultra low drop, with reverse current protection          |
| LDL212DR       | SO-8         | 1.2 A, ultra low drop, high PSRR, 18 V input compatible         |
| LDLN025PU33R   | DFN4 1x1     | 250 mA, ultra low noise and very high PSRR                      |
| ST715C33R      | SOT323-5L    | 85 mA, very low quiescent current, 24 V input compatible        |
| ST730MR        | SOT23-5L     | 300 mA, very low quiescent current, 28 V input compatible       |
| STLQ020J30R    | Flip-Chip 4  | 200 mA, ultra low quiescent current                             |

**Table 2. Key parameters**

| Part number | Tiny package | Low quiescent current | Low-dropout | Low noise / high PSRR |
|-------------|--------------|-----------------------|-------------|-----------------------|
| LD39100     |              | X                     | X           | X                     |
| LD39130S    | X            | X                     |             |                       |
| LD39200     |              |                       | X           | X                     |
| LD56050     | X            |                       | X           | X                     |
| LD56100     | X            |                       | X           | X                     |
| LD57100     | X            |                       | X           | X                     |
| LD59030     | X            |                       | X           | X                     |
| LD59100     |              |                       | X           | X                     |
| LDBL20      | X            |                       |             | X                     |
| LDF         |              |                       | X           |                       |
| LDK130      | X            |                       | X           |                       |
| LDK320      |              |                       | X           |                       |
| LDL112      |              |                       | X           |                       |
| LDL212      |              |                       | X           |                       |
| LDLN025     | X            |                       |             | X                     |
| ST715       | X            | X                     |             |                       |
| ST730       |              | X                     |             |                       |
| STLQ020     | X            | X                     |             |                       |

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## Revision history

**Table 3. Document revision history**

| Date        | Version | Changes          |
|-------------|---------|------------------|
| 10-Aug-2021 | 1       | Initial release. |

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