

ADL-Series Sensor Quick Reference

ADL-Series 2.4 - 3.6 V Digital Switches

The new ADL-Series Giant Magnetoresistive (GMR) Digital Switches are NVE's smallest packaged parts at just 1.1 mm x 1.1 mm x 0.45 mm.

Internally duty cycled versions conserve power. Two different duty-cycle frequencies are available (ADL0xx and ADL1xx Series), offering a trade-off between update frequency and power consumption. An integrated latch ensures the output is available continuously. A continuously-operating version (the ADL9xx Series) is available, with a frequency response of 250 kHz.

Key specifications are:

- 1.1 mm x 1.1 mm x 0.45 mm ULLGA package
- 2.4 - 3.6 V supply voltage
- Typ. power consumption as low as 72 nW at 2.4 V
- 40, 28, or 20 Oe operate points
- Current-sinking output up to 100 μ A
- -40°C to +125°C temperature range

Standard part types are listed below (bare die and custom parts are also available):

| Part Number | Typ. Magnetic Operate Point (Oe) | Max. Quiescent Current at 2.4 V (μ A) | Max. Quiescent Current at 3.6 V (μ A) | Typ. Update Frequency | Package Type |
|-------------|----------------------------------|--|--|-----------------------|-----------------------|
| ADL021-14E | 20 | 0.160 | 0.305 | 55 Hz | 1.1 mm x 1.1 mm ULLGA |
| ADL022-14E | 40 | 0.160 | 0.305 | 55 Hz | 1.1 mm x 1.1 mm ULLGA |
| ADL024-14E | 28 | 0.160 | 0.305 | 55 Hz | 1.1 mm x 1.1 mm ULLGA |
| ADL121-14E | 20 | 0.060 | 0.160 | 30 Hz | 1.1 mm x 1.1 mm ULLGA |
| ADL122-14E | 40 | 0.060 | 0.160 | 30 Hz | 1.1 mm x 1.1 mm ULLGA |
| ADL124-14E | 28 | 0.060 | 0.160 | 30 Hz | 1.1 mm x 1.1 mm ULLGA |
| ADL921-14E | 20 | 50 | 120 | Continuous | 1.1 mm x 1.1 mm ULLGA |
| ADL922-14E | 40 | 50 | 120 | Continuous | 1.1 mm x 1.1 mm ULLGA |
| ADL924-14E | 28 | 50 | 120 | Continuous | 1.1 mm x 1.1 mm ULLGA |

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