# ERDI LRF0105C

Component datasheet · ERDI TECH LTD · laser rangefinder modules and eye-safe laser sources

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|---|---|
| **Model** | **LRF0105C** |
| **Family** | 1535nm |
| **Wavelength** | 1535 ± 5 nm |
| **Measuring range (with the condition it was measured under)** | Visibility ≥6 km: building ≥4000 m at 60% reflectance (building size not stated); 2.3 × 2.3 m target ≥3000 m, 0.5 × 1.7 m target ≥1500 m and |
| **Accuracy / resolution** | / resolution ±2 m; range resolution ≤0.1 m |
| **Update rate** | Single-shot, 1 Hz, 5 Hz, 10 Hz Beam divergence ≤1 mrad |
| **Interface** | UART, 3.3 V TTL |
| **Supply** | DC 3-5 V |
| **Power** | Average ≤0.8 W; peak ≤1.5 W; standby ≤1 mW |
| **Mass** | Source notation: ≤29 ± 1 g; acceptance limit requires clarification |
| **Dimensions** | Ø34 × 47.5 mm |
| **Operating temperature** | -40 to +70 °C; storage -55 to +75 °C |
| **Laser class** | — |
| **Pulse energy** | ≥100 μJ |

**Source note.** Figures pending confirmation against the manufacturer's current specification sheet.

**How to read the range figure.** A range number without its target size, reflectance and visibility is not comparable to anything. The figure above carries the manufacturer's own condition, quoted verbatim. If you need a different target or a different visibility, ask — the usable range changes, and we would rather state both than let you discover it in the field.

**What is not in this sheet.** Pinout, command frames and the protocol document are supplied with the units, matched to your firmware revision. We do not publish them here because frames differ between revisions and a generic frame does nothing on your bench.