ERDI LRF0305C

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

Model	**LRF0305C**
Family	1535nm
Wavelength	1535 ± 5 nm
Measuring range (with the condition it was measured under)	Visibility >8 km: building ≥4000 m at 60% reflectance (size not stated); 2.3 × 2.3 m target ≥3000 m, 0.5 × 1.7 m target ≥1500 m and 0.2 × 0.
Accuracy / resolution	/ resolution ±1 m
Update rate	1-10 Hz Beam divergence ≤0.6 mrad
Interface	UART, 3.3 V TTL
Supply	DC 3-5 V
Power	At 5 V: operating ≤0.9 W at 1 Hz and <1.5 W at 10 Hz; peak <3 W Standby ≤10 mW with Power_on low; ≤0.8 W with Power_on high.
Mass	Source notation: ≤14 ± 1 g; acceptance limit requires clarification
Dimensions	≤27 × 25 × 15.5 mm
Operating temperature	-40 to +70 °C; storage -45 to +70 °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 We do not publish them here because frames differ between revisions and a generic frame does nothing on your bench.

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