ERDI LRF50VB

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

Model	**LRF50VB**
Family	LRF-VB series · 905/940 nm single-point LiDAR
Wavelength	905 nm
Measuring range (with the condition it was measured under)	0.05–50 m (90% reflectivity); 0.05–20 m (10% reflectivity)
Accuracy / resolution	±5 cm (<5 m); 1% (≥5 m)
Update rate	100 Hz
Interface	UART/IIC
Supply	3.3–5 V DC
Power	—
Mass	—
Dimensions	18.7 × 11.8 × 13.3 mm
Operating temperature	–20 °C to +60 °C
Laser class	—
Pulse energy	—

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 We do not publish them here because frames differ between revisions and a generic frame does nothing on your bench.

ERDI TECH LTD · No.23 Chaoyang Road, Xihe Street, Longquanyi District, Chengdu 610107, China · specs@erdilrf.com · https://specs.erdilrf.com · figures transcribed from the manufacturer's published specification