ERDI ER500

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

Model	**ER500**
Family	1540nm
Wavelength	1535 nm
Measuring range (with the condition it was measured under)	—
Accuracy / resolution	—
Update rate	1-10 Hz Pulse stability (source label) 10% Raw beam diameter 0.3 mm Beam divergence ≤7 mrad Beam mode TEM00
Interface	—
Supply	—
Power	—
Mass	—
Dimensions	(table) 35 × 8 × 6.8 mm Mass 12 g Drive voltage / current (table) 2 V / 20 A Drive pulse width (table) ≤2.4 ms (table; see note) ER500 EN.pd
Operating temperature	-40 to +65 °C Storage temperature -55 to +75 °C
Laser class	—
Pulse energy	≥500 µJ

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 We do not publish them here because frames differ between revisions and a generic frame does nothing on your bench.