

BLUE + NEAR-INFRARED COB

Nominal 450 nm + 750 nm dual-band platform

Visible + NIR spectrum · reported primary peak at 447.6 nm

ENGINEERING CHARACTERIZATION

Single sample · 25 °C · 15% RH · 350 mA · 10 October 2026

Not a guaranteed production limit. Final ratings are governed by an approved Polymatech specification and order confirmation.

MEASURED ELECTRO-OPTICAL RESULTS

Nominal bands	450 nm + 750 nm	Primary peak / FWHM	447.6 / 17.9 nm
Luminous flux	69.90 lm	Optical power	1,483.38 mW
Electrical	350 mA · 26.73 V · 9.357 W	Product status	Engineering configuration
Control	Constant-current driver	Thermal design	Application heat sink required

PLATFORM & DESIGN-IN

Form factor	30 × 30 × 1 mm aluminium-base COB platform
Light-emitting surface	17 mm nominal LES
Mounting reference	Two 3 mm holes; M4 hardware reference; verify drawing before tooling
Drive & cooling	Constant-current operation; application heat sink and thermal-interface design required
Supply status	Made in India by Polymatech Electronics Limited; configuration subject to engineering review

TYPICAL APPLICATIONS

Machine vision, inspection, fluorescence-excitation research and application-specific visible/NIR systems.

CONTROL NOTE

Photometric lumens do not represent NIR performance. Request configuration-specific radiant output, channel ratio and tolerance before design-in.