

BLUE + GREEN COB

Nominal 450 nm + 550 nm dual-band platform

Dual-band 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 + 550 nm	Primary peak / FWHM	447.6 / 27.9 nm
Luminous flux	871.37 lm	Efficacy	89.42 lm/W
Optical power	1,553.02 mW	CIE 1931	x 0.2243 · y 0.3238
CRI (Ra)	57.98	Electrical	350 mA · 27.84 V · 9.745 W

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

Specialty illumination, fluorescence-excitation development, inspection and spectral-system prototyping.

CONTROL NOTE

The source report tabulates the primary peak only; the secondary green band is visible in the measured spectrum. Production band ratio and tolerance require an approved customer specification.