

WHITE COB

5,633 K engineering characterization

Broad-spectrum white output · blue-pump peak at 451.6 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

CCT	5,633 K	CRI (Ra)	84.89
Luminous flux	4,312.41 lm	Efficacy	123.46 lm/W
Optical power	7,979.65 mW	CIE 1931	x 0.3311 · y 0.3537
Peak / FWHM	451.6 / 21.4 nm	Electrical	350 mA · 99.80 V · 34.930 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

General illumination development, machine vision illumination and configuration-specific white-light systems.

CONTROL NOTE

The values above describe one tested engineering sample. Product CCT, CRI, flux and efficacy must be confirmed for the selected production configuration and bin.