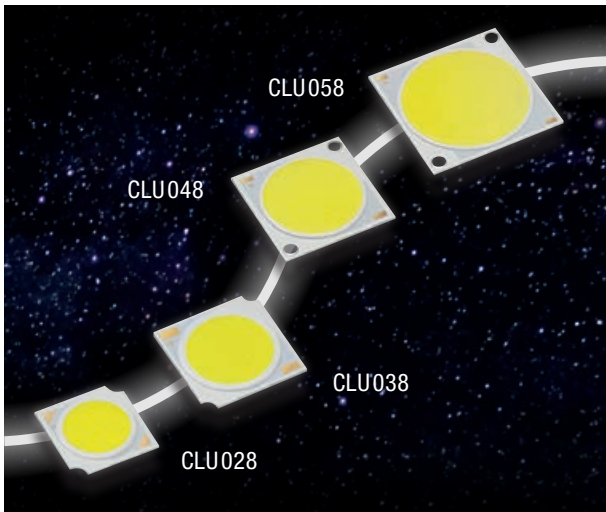




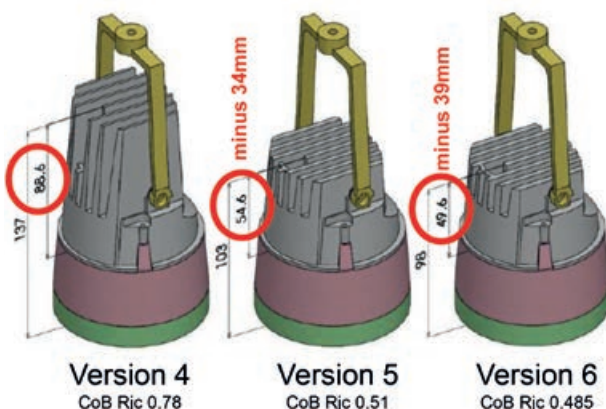
COB LED GENERATION 6



CHARACTERISTICS

- Excellent color quality and true color reproduction
- Larger choice of types for optimal application
- Same housing forms as previous versions
- Outstanding thermal management (Chip on AI technology)
- Ra 70 min. (ANSI C78.377): 3,000K, 4000K, 5000K
- Ra 80 min. (3-step MacAdam ellipse): 2,700K, 3,000K, 3,500K, 4,000K, 5,000K, 5,700K, 6,500K
- Ra90 min. On B.B.L. (3-step MacAdam ellipse): 2,700K, 3,000K, 3,500K, 4,000K, 5,700K
- Ra 90 min. Below B.B.L. (3-step MacAdam ellipse): 2,700K, 3,000K, 3,500K
- Ra 97 typ. (3-step MacAdam ell.): 2,700K, 3,000K, 4,000K
- Certification of COB types according to UL8750 standard

IMPACT OF REDUCTION OF THERMAL RESISTANCE



Citizen Electronics Co. Ltd. has developed the 6th generation of COB LEDs based on the previous housing dimensions.

For the standard types of the CLU0X8 series the performance of luminous flux and efficiency compared to the 5. Generation was improved by 2 - 7% depending on RA combinations. Citizen continues to be the world market leader in the field of COB technology. By new selecting and improving the materials, Citizen achieves not only an increase of the brightness and light output, but also the thermal resistance was reduced by further 5%.

Already at the introduction of the generation 5 Citizen focused on the thermal management and reduced the Rj-C approx. by 30 - 35% compared to the previous generation. As a result lighting manufacturer will have new design flexibility because the same light output with a significantly smaller heat sink is now possible. When using the same operating conditions (current, TC temperature) the lower thermal load will have a positive effect on the lifetime. As an additional option Citizen offers Generation 6 for the first time with MacAdam Step 2 Binning.

Specifications (5,000 K, Ra 70 min., Tj= 25°C)

SERIES	PART NUMBER	POWER	LUMINOUS FLUX
CLU028- (13.5x13.5 x1.4 mm)	CLU028-1201 CLU028-1202 CLU028-1203 CLU028-1204	0.2 ~ 39.0 W	31 ~ 4628 lm
CLU038- (19.0x19.0 x1.4 mm)	CLU038-1205 CLU038-1206 CLU038-1208	0.8 ~ 79.4 W	155 ~ 11717 lm
CLU048- (28.0x 28.0 x1.4 mm)	CLU048-1211 CLU048-1216 CLU048-1818	1.7 ~ 262,9 W	340 ~ 31.371 lm
CLU056- (38.0 x 38.0 x1.4 mm)	CLU058-1825 CLU058-3618	5.7 ~ 524,6 W	1198 ~ 64.019 lm