

Ergon® COB

Ver. HO+**160 lm/W*****Flip-chip COB, The Ultimate Reliability***

Ergon COB Series, a new generation of high-power COB, brings industry-leading performance and reliability to various general lighting applications. Built on the **World's first Silver-free Flip-chip** technology. Ergon COB is able to deliver 15% more efficiency with improved thermal dissipation and longer durability. Ergon COB is free from wire bonding that can be easily broken upon electrical shock so as to provide excellent mechanical and electrical performance. All Ergon COB Series provide various options for size, power, color and 2nd optic solutions such as reflector and lens. It's time to incorporate Ergon COB into your lighting designs.

Features

- World's 1st Silver-free Flip-chip, Higher Reflectivity
- No wire bonding, Better Robustness
- The World's Best Efficacy - 160 lm/w
- Lower Thermal Resistance, 40% higher LED Lifetime
- Better Current spreading, Lowest Droop

Applications

- Down Light
- Spot Light
- Bulb
- Flood Light
- High Bay Light
- Street Light

Electro-Optical Characteristics

Ra70/80/90
(T_j=85°C)

ERC1507HO+

	Model No	SIZE [mm]	Power [W]	Rth [°C/W]	CRI [Ra]	Input Voltage [V]	CCT [K]	Lumen Output [lm]	Efficacy [lm/W]	Forward Current [mA] Typ./Max.
CRI 70	ERC1507S727HO+ ERC1507S730HO+	15.85x15.85 x1.7 (LES 8.9)	6.5	2.1	70+	32.6	4000 5000	1030 1050	158 161	200/380
CRI 80	ERC1507S827HO+ ERC1507S830HO+ ERC1507S835HO+ ERC1507S840HO+ ERC1507S850HO+	15.85x15.85 x1.7 (LES 8.9)	6.5	2.1	80+	32.6	2700 3000 3500 4000 5000	900 940 940 970 995	138 143 143 147 152	200/380
CRI 90	ERC1507S927HO+ ERC1507S930HO+	15.85x15.85 x1.7 (LES 8.9)	6.5	2.1	90+	32.6	2700 3000	760 790	117 121	200/380

- Note:
- 1. () LES Size (Light Emitting Surface)
 - 2. Typical Luminous Flux value / T_j=85 °C
 - 3. Accuracy : CRI (±2), lm (±7%), Dimension (±0.2mm)
 - 4. Specifications can be changed without advance notice.
 - 5. Installation shall follow cautions and guidance that Lumens provides.

Electro-Optical Characteristics

Ra70/80/90
(T_j=85°C)

ERC1512HO+

	Model No	SIZE [mm]	Power [W]	Rth [°C/W]	CRI [Ra]	Input Voltage [V]	CCT [K]	Lumen Output [lm]	Efficacy [lm/W]	Forward Current [mA] Typ./Max.
CRI 70	ERC1512S727HO+	15.85x15.85 x1.7 (LES 8.9)	10.8	1.9	70+	32.8	4000	1610	149	330/600
	ERC1512S730HO+						5000	1650	152	
CRI 80	ERC1512S827HO+	15.85x15.85 x1.7 (LES 8.9)	10.8	1.9	80+	32.8	2700	1420	131	330/600
	ERC1512S830HO+						3000	1470	136	
	ERC1512S835HO+						3500	1470	136	
	ERC1512S840HO+						4000	1520	140	
	ERC1512S850HO+						5000	1560	144	
CRI 90	ERC1512S927HO+	15.85x15.85 x1.7 (LES 8.9)	10.8	1.9	90+	32.8	2700	1200	111	330/600
	ERC1512S930HO+						3000	1250	116	

- Note:
- 1. () LES Size (Light Emitting Surface)
 - 2. Typical Luminous Flux value / T_j=85 °C
 - 3. Accuracy : CRI (±2), lm (±7%), Dimension (±0.2mm)
 - 4. Specifications can be changed without advance notice.
 - 5. Installation shall follow cautions and guidance that Lumens provides.

Electro-Optical Characteristics

Ra70/80/90
(T_j=85°C)

ERC2520HO+

	Model No	SIZE [mm]	Power [W]	Rth [°C/W]	CRI [Ra]	Input Voltage [V]	CCT [K]	Lumen Output [lm]	Efficacy [lm/W]	Forward Current [mA] Typ./Max.
CRI 70	ERC2520S727HO+	23.85x23.85 x1.7 (LES 19.0)	20.0	1.3	70+	33.3	4000	3309	166	600/1100
	ERC2520S730HO+						5000	3370	169	
CRI 80	ERC2520S827HO+	23.85x23.85 x1.7 (LES 19.0)	20.0	1.3	80+	33.3	2700	2903	145	600/1100
	ERC2520S830HO+						3000	3004	150	
	ERC2520S835HO+						3500	3004	150	
	ERC2520S840HO+						4000	3106	156	
	ERC2520S850HO+						5000	3197	160	
CRI 90	ERC2520S927HO+	23.85x23.85 x1.7 (LES 19.0)	20.0	1.3	90+	33.3	2700	2466	123	600/1100
	ERC2520S930HO+						3000	2558	128	

- Note:
- 1. () LES Size (Light Emitting Surface)
 - 2. Typical Luminous Flux value / T_j=85 °C
 - 3. Accuracy : CRI (±2), lm (±7%), Dimension (±0.2mm)
 - 4. Specifications can be changed without advance notice.
 - 5. Installation shall follow cautions and guidance that Lumens provides.

Electro-Optical Characteristics

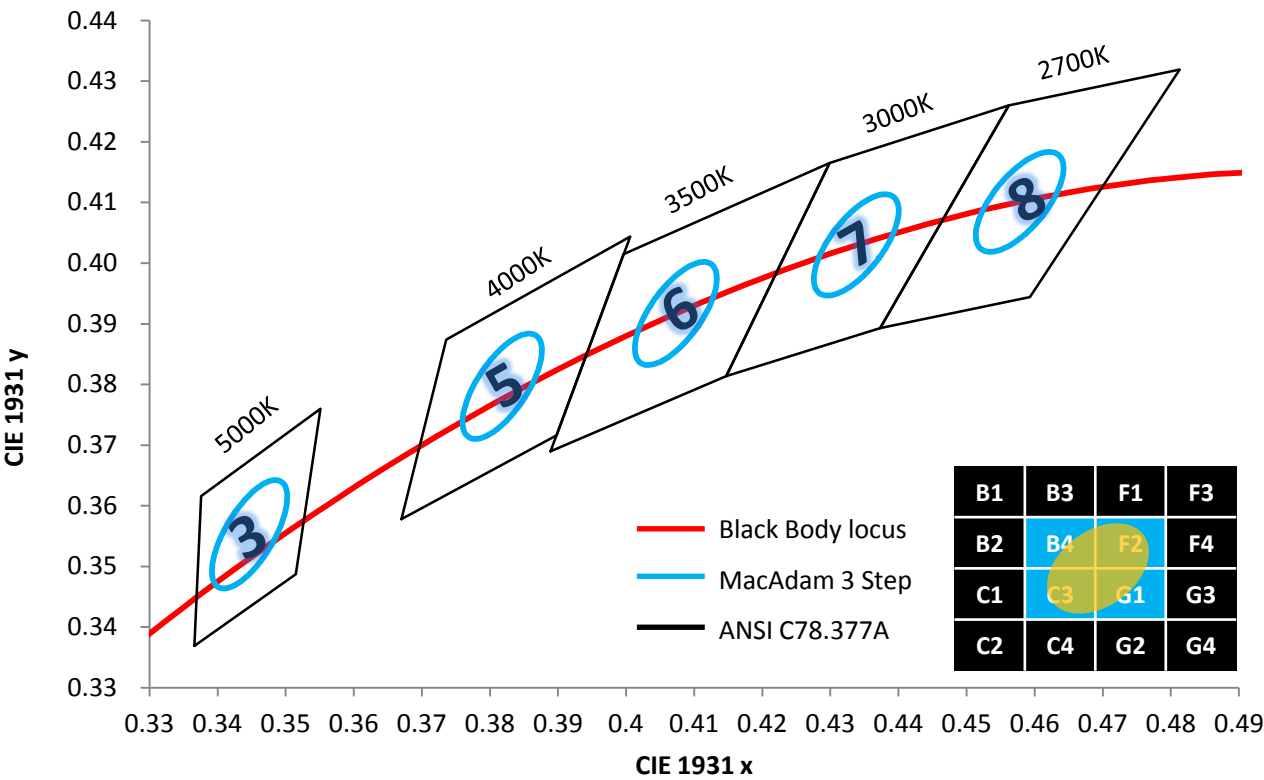
Ra70/80/90
(T_j=85°C)

ERC2530HO+

	Model No	SIZE [mm]	Power [W]	Rth [°C/W]	CRI [Ra]	Input Voltage [V]	CCT [K]	Lumen Output [lm]	Efficacy [lm/W]	Forward Current [mA] Typ./Max.
CRI 70	ERC2530S727HO+ ERC2530S730HO+	23.85x23.85 x1.7 (LES 19.0)	28.5	1.0	70+	33.5	4000 5000	4841 4926	170 173	850/1600
CRI 80	ERC2530S827HO+ ERC2530S830HO+ ERC2530S835HO+ ERC2530S840HO+ ERC2530S850HO+	23.85x23.85 x1.7 (LES 19.0)	28.5	1.0	80+	33.5	2700 3000 3500 4000 5000	4239 4397 4397 4545 4672	149 154 154 160 164	850/1600
CRI 90	ERC2530S927HO+ ERC2530S930HO+	23.85x23.85 x1.7 (LES 19.0)	28.5	1.0	90+	33.5	2700 3000	3604 3742	127 131	850/1600

- Note:
- 1. () LES Size (Light Emitting Surface)
 - 2. Typical Luminous Flux value / T_j=85 °C
 - 3. Accuracy : CRI (±2), lm (±7%), Dimension (±0.2mm)
 - 4. Specifications can be changed without advance notice.
 - 5. Installation shall follow cautions and guidance that Lumens provides.

Chromaticity Binning



Mechanical Dimension

