

CITILED Standard COB Series Ver.9

CITILED
The Light Engine

Save limited Natural resources
with advanced Technology

High Efficacy

By improving LED packaging technology, higher efficacy than Ver.6 and Ver.8 is realized.

Long Lifetime

The new series has improved two properties which are required for lighting LEDs: one is **long-term reliability** which ensures constant brightness even if the LEDs are used for a long period of time, and the other is **gas resistance** (*1). The two properties will contribute to **the reduction in environmental loads** as the improved luminous efficacy saves power (which leads to reduction of carbon dioxide emissions) and also reduces the frequency of change or repair of the LED light source and luminaires.

*1 : Compared to our company's products by in-house test

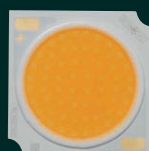
2-step Standardized for Ra80, 90, 97 series (*2)

2-step is about a half of the area ratio compared to the 3-step chromaticity range, has been realized with all colors of Ra80, 90, 97 series.

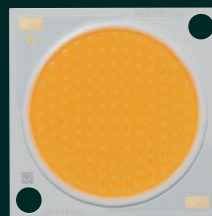
*2 : 3-step Standardized for Ra70 series



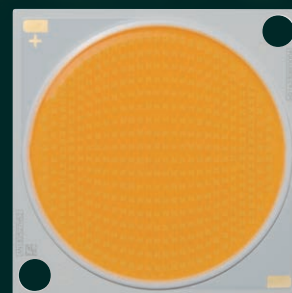
CLU02Q



CLU03Q



CLU04Q



CLU05Q

* The pictures will be full-scale
when it is printed in A4 size.

CITIZEN ELECTRONICS CO., LTD.

CITILED Standard COB Series Ver.9

Color Variation

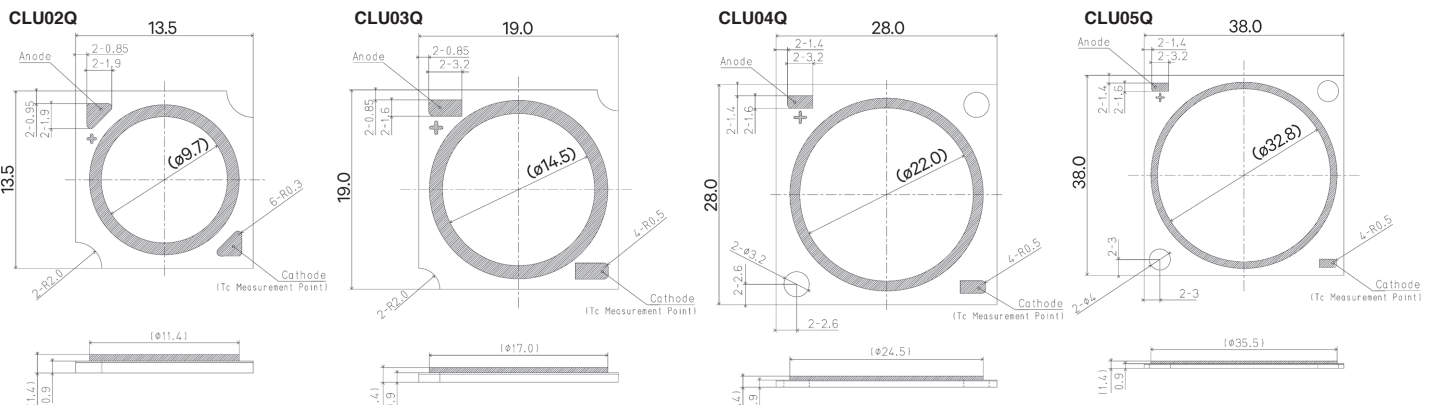
Package	Die Configuration	70 CRI Min.			80 CRI Min.							90 CRI Min.					Below B.B.L. 90 CRI Min.			Super High CRI 97 CRI Typ.		
		30	40	50	27	30	35	40	50	57	65	27	30	35	40	57	27	30	35	27	30	40
CLU02Q	1201	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	1202	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	1203	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	1204	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CLU03Q	1205	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	1206	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	1208	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	1210	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CLU04Q	1211	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	1212	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	1812	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	1818	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CLU05Q	1825	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	3618	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Representative specifications

Product code	Electro-optical Characteristics									Absolute Maximum Rating
	CRI	CCT	Forward current (mA)	Voltage Typ. (V)	Input power Typ. (W)	Luminous flux Typ. (lm)	Efficacy Typ. (lm/W)	Thermal resistance Rj-c (°C/W)	Forward current (mA)	
CLU02Q-1201E1-302M2X2	80min	3,000K	90	33.8	3.0	491	161	2.6	230	
CLU02Q-1202E1-302M2X2	80min	3,000K	180	33.8	6.1	973	160	1.5	460	
CLU02Q-1203E1-302M2X2	80min	3,000K	270	33.8	9.1	1,445	158	1.0	690	
CLU02Q-1204E1-302M2X2	80min	3,000K	360	33.8	12.2	1,908	157	0.86	920	
CLU03Q-1205E1-302M2X2	80min	3,000K	450	33.8	15.2	2,455	161	0.68	1,150	
CLU03Q-1206E1-302M2X2	80min	3,000K	540	33.8	18.3	2,918	160	0.61	1,380	
CLU03Q-1208E1-302M2X2	80min	3,000K	720	33.8	24.3	3,852	158	0.48	1,840	
CLU03Q-1210E1-302M2X2	80min	3,000K	900	33.8	30.4	4,770	157	0.40	2,300	
CLU04Q-1211E1-302M2X2	80min	3,000K	990	33.8	33.5	5,401	161	0.36	2,530	
CLU04Q-1212E1-302M2X2	80min	3,000K	1,080	33.8	36.5	5,892	161	0.32	2,760	
CLU04Q-1812E1-302M2X2	80min	3,000K	1,080	50.7	54.8	8,635	158	0.24	2,760	
CLU04Q-1818E1-302M2X2	80min	3,000K	1,620	50.7	82.1	12,796	156	0.16	4,140	
CLU05Q-1825E1-302M2X2	80min	3,000K	2,250	50.7	114.1	17,990	158	0.14	5,750	
CLU05Q-3618E1-302M2X2	80min	3,000K	1,620	101.4	164.3	25,593	156	0.10	4,140	

Note : Please check the details of the release data and the latest specification of each product on our WEB site (<https://ce.citizen.co.jp/e/>).

Outline Drawing



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Contact

Website <https://ce.citizen.co.jp/e/>
 Sales Network https://ce.citizen.co.jp/productse/sales_network
 Requests / Inquiries E-mail : cej-inquiry@ml.citizen.co.jp

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CITIZEN ELECTRONICS CO., LTD.

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Product List

(Tj=85°C)

Package	Product code	Electro-optical Characteristics								Absolute Maximum Rating
		CRI	CCT	Forward current (mA)	Voltage Typ. (V)	Input power Typ. (W)	Luminous flux Typ. (lm)	Efficacy Typ. (lm/W)	Thermal resistance Rj-c (°C/W)	Forward current (mA)
 CLU02Q	CLU02Q-1201E1-272M2X2	80min	2,700K	90	33.8	3.0	473	155	2.6	230
	CLU02Q-1201E1-302M2X2	80min	3,000K				491	161		
	CLU02Q-1201E1-352M2X2	80min	3,500K				502	165		
	CLU02Q-1201E1-402M2X2	80min	4,000K				514	169		
	CLU02Q-1201E1-502M2X2	80min	5,000K				512	168		
	CLU02Q-1201E1-572M2X2	80min	5,700K				507	167		
	CLU02Q-1201E1-652M2X2	80min	6,500K				505	166		
	CLU02Q-1201E1-272H5X3	90min	2,700K				406	133		
	CLU02Q-1201E1-302H5X3	90min	3,000K				433	142		
	CLU02Q-1201E1-352H5X3	90min	3,500K				442	145		
	CLU02Q-1201E1-402H5X3	90min	4,000K				456	150		
	CLU02Q-1201E1-572H5X3	90min	5,700K				450	148		
	CLU02Q-1201E1-272H6X3	90min below	2,700K				388	128		
	CLU02Q-1201E1-302H6X3	90min below	3,000K				412	135		
	CLU02Q-1201E1-352H6X3	90min below	3,500K				428	141		
	CLU02Q-1201E1-303L7X4	70min	3,000K				540	178		
	CLU02Q-1201E1-403L7X4	70min	4,000K				546	179		
	CLU02Q-1201E1-503L7X4	70min	5,000K				544	179		
	CLU02Q-1201E1-272H7X5	97typ	2,700K				360	118		
	CLU02Q-1201E1-302H7X5	97typ	3,000K				377	124		
	CLU02Q-1201E1-402H7X5	97typ	4,000K				398	131		
 CLU02Q	CLU02Q-1202E1-272M2X2	80min	2,700K	180	33.8	6.1	932	153	1.5	460
	CLU02Q-1202E1-302M2X2	80min	3,000K				973	160		
	CLU02Q-1202E1-352M2X2	80min	3,500K				990	163		
	CLU02Q-1202E1-402M2X2	80min	4,000K				1,007	166		
	CLU02Q-1202E1-502M2X2	80min	5,000K				1,008	166		
	CLU02Q-1202E1-572M2X2	80min	5,700K				998	164		
	CLU02Q-1202E1-652M2X2	80min	6,500K				996	164		
	CLU02Q-1202E1-272H5X3	90min	2,700K				803	132		
	CLU02Q-1202E1-302H5X3	90min	3,000K				854	140		
	CLU02Q-1202E1-352H5X3	90min	3,500K				871	143		
	CLU02Q-1202E1-402H5X3	90min	4,000K				906	149		
	CLU02Q-1202E1-572H5X3	90min	5,700K				898	148		
	CLU02Q-1202E1-272H6X3	90min below	2,700K				762	125		
	CLU02Q-1202E1-302H6X3	90min below	3,000K				812	133		
	CLU02Q-1202E1-352H6X3	90min below	3,500K				849	140		
	CLU02Q-1202E1-303L7X4	70min	3,000K				1,064	175		
	CLU02Q-1202E1-403L7X4	70min	4,000K				1,077	177		
	CLU02Q-1202E1-503L7X4	70min	5,000K				1,075	177		
	CLU02Q-1202E1-272H7X5	97typ	2,700K				711	117		
	CLU02Q-1202E1-302H7X5	97typ	3,000K				746	123		
	CLU02Q-1202E1-402H7X5	97typ	4,000K				786	129		
 CLU02Q	CLU02Q-1203E1-272M2X2	80min	2,700K	270	33.8	9.1	1,377	151	1.0	690
	CLU02Q-1203E1-302M2X2	80min	3,000K				1,445	158		
	CLU02Q-1203E1-352M2X2	80min	3,500K				1,462	160		
	CLU02Q-1203E1-402M2X2	80min	4,000K				1,479	162		
	CLU02Q-1203E1-502M2X2	80min	5,000K				1,488	163		
	CLU02Q-1203E1-572M2X2	80min	5,700K				1,474	162		
	CLU02Q-1203E1-652M2X2	80min	6,500K				1,468	161		
	CLU02Q-1203E1-272H5X3	90min	2,700K				1,182	130		
	CLU02Q-1203E1-302H5X3	90min	3,000K				1,260	138		
	CLU02Q-1203E1-352H5X3	90min	3,500K				1,296	142		
	CLU02Q-1203E1-402H5X3	90min	4,000K				1,348	148		
	CLU02Q-1203E1-572H5X3	90min	5,700K				1,343	147		
	CLU02Q-1203E1-272H6X3	90min below	2,700K				1,133	124		
	CLU02Q-1203E1-302H6X3	90min below	3,000K				1,207	132		
	CLU02Q-1203E1-352H6X3	90min below	3,500K				1,264	139		
	CLU02Q-1203E1-303L7X4	70min	3,000K				1,572	172		
	CLU02Q-1203E1-403L7X4	70min	4,000K				1,593	175		
	CLU02Q-1203E1-503L7X4	70min	5,000K				1,579	173		
	CLU02Q-1203E1-272H7X5	97typ	2,700K				1,049	115		
	CLU02Q-1203E1-302H7X5	97typ	3,000K				1,100	121		
	CLU02Q-1203E1-402H7X5	97typ	4,000K				1,165	128		

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Product List

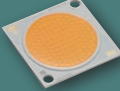
(Tj=85°C)

Package	Product code	Electro-optical Characteristics								Absolute Maximum Rating
		CRI	CCT	Forward current (mA)	Voltage Typ. (V)	Input power Typ. (W)	Luminous flux Typ. (lm)	Efficacy Typ. (lm/W)	Thermal resistance Rj-c (°C/W)	Forward current (mA)
 CLU02Q	CLU02Q-1204E1-272M2X2	80min	2,700K	360	33.8	12.2	1,808	149	0.86	920
	CLU02Q-1204E1-302M2X2	80min	3,000K				1,908	157		
	CLU02Q-1204E1-352M2X2	80min	3,500K				1,919	158		
	CLU02Q-1204E1-402M2X2	80min	4,000K				1,931	159		
	CLU02Q-1204E1-502M2X2	80min	5,000K				1,953	161		
	CLU02Q-1204E1-572M2X2	80min	5,700K				1,933	159		
	CLU02Q-1204E1-652M2X2	80min	6,500K				1,923	158		
	CLU02Q-1204E1-272H5X3	90min	2,700K				1,548	127		
	CLU02Q-1204E1-302H5X3	90min	3,000K				1,650	136		
	CLU02Q-1204E1-352H5X3	90min	3,500K				1,714	141		
	CLU02Q-1204E1-402H5X3	90min	4,000K				1,784	147		
	CLU02Q-1204E1-572H5X3	90min	5,700K				1,786	147		
	CLU02Q-1204E1-272H6X3	90min below	2,700K				1,482	122		
	CLU02Q-1204E1-302H6X3	90min below	3,000K				1,595	131		
	CLU02Q-1204E1-352H6X3	90min below	3,500K				1,671	137		
	CLU02Q-1204E1-303L7X4	70min	3,000K				2,065	170		
	CLU02Q-1204E1-403L7X4	70min	4,000K				2,095	172		
	CLU02Q-1204E1-503L7X4	70min	5,000K				2,078	171		
	CLU02Q-1204E1-272H7X5	97typ	2,700K				1,370	113		
	CLU02Q-1204E1-302H7X5	97typ	3,000K				1,441	118		
	CLU02Q-1204E1-402H7X5	97typ	4,000K				1,536	126		
 CLU03Q	CLU03Q-1205E1-272M2X2	80min	2,700K	450	33.8	15.2	2,364	155	0.68	1,150
	CLU03Q-1205E1-302M2X2	80min	3,000K				2,455	161		
	CLU03Q-1205E1-352M2X2	80min	3,500K				2,511	165		
	CLU03Q-1205E1-402M2X2	80min	4,000K				2,569	169		
	CLU03Q-1205E1-502M2X2	80min	5,000K				2,561	168		
	CLU03Q-1205E1-572M2X2	80min	5,700K				2,536	167		
	CLU03Q-1205E1-652M2X2	80min	6,500K				2,503	165		
	CLU03Q-1205E1-272H5X3	90min	2,700K				2,019	133		
	CLU03Q-1205E1-302H5X3	90min	3,000K				2,151	141		
	CLU03Q-1205E1-352H5X3	90min	3,500K				2,196	144		
	CLU03Q-1205E1-402H5X3	90min	4,000K				2,281	150		
	CLU03Q-1205E1-572H5X3	90min	5,700K				2,251	148		
	CLU03Q-1205E1-272H6X3	90min below	2,700K				1,937	127		
	CLU03Q-1205E1-302H6X3	90min below	3,000K				2,053	135		
	CLU03Q-1205E1-352H6X3	90min below	3,500K				2,142	141		
	CLU03Q-1205E1-303L7X4	70min	3,000K				2,700	178		
	CLU03Q-1205E1-403L7X4	70min	4,000K				2,729	179		
	CLU03Q-1205E1-503L7X4	70min	5,000K				2,695	177		
	CLU03Q-1205E1-272H7X5	97typ	2,700K				1,789	118		
	CLU03Q-1205E1-302H7X5	97typ	3,000K				1,883	124		
	CLU03Q-1205E1-402H7X5	97typ	4,000K				1,988	131		
 CLU03Q	CLU03Q-1206E1-272M2X2	80min	2,700K	540	33.8	18.3	2,796	153	0.61	1,380
	CLU03Q-1206E1-302M2X2	80min	3,000K				2,918	160		
	CLU03Q-1206E1-352M2X2	80min	3,500K				2,970	163		
	CLU03Q-1206E1-402M2X2	80min	4,000K				3,021	166		
	CLU03Q-1206E1-502M2X2	80min	5,000K				3,024	166		
	CLU03Q-1206E1-572M2X2	80min	5,700K				2,995	164		
	CLU03Q-1206E1-652M2X2	80min	6,500K				2,972	163		
	CLU03Q-1206E1-272H5X3	90min	2,700K				2,399	131		
	CLU03Q-1206E1-302H5X3	90min	3,000K				2,555	140		
	CLU03Q-1206E1-352H5X3	90min	3,500K				2,614	143		
	CLU03Q-1206E1-402H5X3	90min	4,000K				2,718	149		
	CLU03Q-1206E1-572H5X3	90min	5,700K				2,694	148		
	CLU03Q-1206E1-272H6X3	90min below	2,700K				2,300	126		
	CLU03Q-1206E1-302H6X3	90min below	3,000K				2,438	134		
	CLU03Q-1206E1-352H6X3	90min below	3,500K				2,548	140		
	CLU03Q-1206E1-303L7X4	70min	3,000K				3,181	174		
	CLU03Q-1206E1-403L7X4	70min	4,000K				3,212	176		
	CLU03Q-1206E1-503L7X4	70min	5,000K				3,208	176		
	CLU03Q-1206E1-272H7X5	97typ	2,700K				2,126	116		
	CLU03Q-1206E1-302H7X5	97typ	3,000K				2,231	122		
	CLU03Q-1206E1-402H7X5	97typ	4,000K				2,358	129		

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Product List

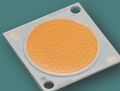
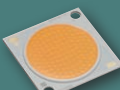
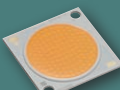
(Tj=85°C)

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		CRI	CCT	Forward current (mA)	Voltage Typ. (V)	Input power Typ. (W)	Luminous flux Typ. (lm)	Efficacy Typ. (lm/W)	Thermal resistance Rj-c (°C/W)	Forward current (mA)
 CLU03Q	CLU03Q-1208E1-272M2X2	80min	2,700K	720	33.8	24.3	3,672	151	0.48	1,840
	CLU03Q-1208E1-302M2X2	80min	3,000K				3,852	158		
	CLU03Q-1208E1-352M2X2	80min	3,500K				3,899	160		
	CLU03Q-1208E1-402M2X2	80min	4,000K				3,945	162		
	CLU03Q-1208E1-502M2X2	80min	5,000K				3,969	163		
	CLU03Q-1208E1-572M2X2	80min	5,700K				3,930	161		
	CLU03Q-1208E1-652M2X2	80min	6,500K				3,886	160		
	CLU03Q-1208E1-272H5X3	90min	2,700K				3,136	129		
	CLU03Q-1208E1-302H5X3	90min	3,000K				3,343	137		
	CLU03Q-1208E1-352H5X3	90min	3,500K				3,456	142		
	CLU03Q-1208E1-402H5X3	90min	4,000K				3,594	148		
	CLU03Q-1208E1-572H5X3	90min	5,700K				3,582	147		
	CLU03Q-1208E1-272H6X3	90min below	2,700K				3,008	124		
	CLU03Q-1208E1-302H6X3	90min below	3,000K				3,220	132		
	CLU03Q-1208E1-352H6X3	90min below	3,500K				3,371	139		
	CLU03Q-1208E1-303L7X4	70min	3,000K				4,166	171		
	CLU03Q-1208E1-403L7X4	70min	4,000K				4,198	173		
	CLU03Q-1208E1-503L7X4	70min	5,000K				4,203	173		
	CLU03Q-1208E1-272H7X5	97typ	2,700K				2,779	114		
	CLU03Q-1208E1-302H7X5	97typ	3,000K				2,920	120		
	CLU03Q-1208E1-402H7X5	97typ	4,000K				3,108	128		
 CLU03Q	CLU03Q-1210E1-272M2X2	80min	2,700K	900	33.8	30.4	4,520	149	0.40	2,300
	CLU03Q-1210E1-302M2X2	80min	3,000K				4,770	157		
	CLU03Q-1210E1-352M2X2	80min	3,500K				4,797	158		
	CLU03Q-1210E1-402M2X2	80min	4,000K				4,828	159		
	CLU03Q-1210E1-502M2X2	80min	5,000K				4,882	160		
	CLU03Q-1210E1-572M2X2	80min	5,700K				4,836	159		
	CLU03Q-1210E1-652M2X2	80min	6,500K				4,827	159		
	CLU03Q-1210E1-272H5X3	90min	2,700K				3,888	128		
	CLU03Q-1210E1-302H5X3	90min	3,000K				4,151	136		
	CLU03Q-1210E1-352H5X3	90min	3,500K				4,286	141		
	CLU03Q-1210E1-402H5X3	90min	4,000K				4,460	147		
	CLU03Q-1210E1-572H5X3	90min	5,700K				4,466	147		
	CLU03Q-1210E1-272H6X3	90min below	2,700K				3,727	123		
	CLU03Q-1210E1-302H6X3	90min below	3,000K				3,988	131		
	CLU03Q-1210E1-352H6X3	90min below	3,500K				4,177	137		
	CLU03Q-1210E1-303L7X4	70min	3,000K				5,111	168		
	CLU03Q-1210E1-403L7X4	70min	4,000K				5,141	169		
	CLU03Q-1210E1-503L7X4	70min	5,000K				5,192	171		
	CLU03Q-1210E1-272H7X5	97typ	2,700K				3,425	113		
	CLU03Q-1210E1-302H7X5	97typ	3,000K				3,593	118		
	CLU03Q-1210E1-402H7X5	97typ	4,000K				3,839	126		
 CLU04Q	CLU04Q-1211E1-272M2X2	80min	2,700K	990	33.8	33.5	5,200	155	0.36	2,530
	CLU04Q-1211E1-302M2X2	80min	3,000K				5,401	161		
	CLU04Q-1211E1-352M2X2	80min	3,500K				5,525	165		
	CLU04Q-1211E1-402M2X2	80min	4,000K				5,652	169		
	CLU04Q-1211E1-502M2X2	80min	5,000K				5,635	168		
	CLU04Q-1211E1-572M2X2	80min	5,700K				5,578	167		
	CLU04Q-1211E1-652M2X2	80min	6,500K				5,525	165		
	CLU04Q-1211E1-272H5X3	90min	2,700K				4,459	133		
	CLU04Q-1211E1-302H5X3	90min	3,000K				4,752	142		
	CLU04Q-1211E1-352H5X3	90min	3,500K				4,832	144		
	CLU04Q-1211E1-402H5X3	90min	4,000K				5,019	150		
	CLU04Q-1211E1-572H5X3	90min	5,700K				4,952	148		
	CLU04Q-1211E1-272H6X3	90min below	2,700K				4,278	128		
	CLU04Q-1211E1-302H6X3	90min below	3,000K				4,537	136		
	CLU04Q-1211E1-352H6X3	90min below	3,500K				4,711	141		
	CLU04Q-1211E1-303L7X4	70min	3,000K				5,893	176		
	CLU04Q-1211E1-403L7X4	70min	4,000K				5,926	177		
	CLU04Q-1211E1-503L7X4	70min	5,000K				5,948	178		
	CLU04Q-1211E1-272H7X5	97typ	2,700K				3,951	118		
	CLU04Q-1211E1-302H7X5	97typ	3,000K				4,150	124		
	CLU04Q-1211E1-402H7X5	97typ	4,000K				4,373	131		

Note : Product codes and specifications in this catalogue are subject to change without notice for improvement, and products may be discontinued. We will not be held liable for any damages or costs caused by such change or discontinuation. Please ask our sales team for details of the release date and the latest specifications of each product.

Product List

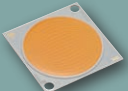
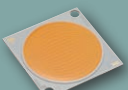
(Tj=85°C)

Package	Product code	Electro-optical Characteristics								Absolute Maximum Rating
		CRI	CCT	Forward current (mA)	Voltage Typ. (V)	Input power Typ. (W)	Luminous flux Typ. (lm)	Efficacy Typ. (lm/W)	Thermal resistance Rj-c (°C/W)	Forward current (mA)
 CLU04Q	CLU04Q-1212E1-272M2X2	80min	2,700K	1,080	33.8	36.5	5,673	155	0.32	2,760
	CLU04Q-1212E1-302M2X2	80min	3,000K				5,892	161		
	CLU04Q-1212E1-352M2X2	80min	3,500K				6,027	165		
	CLU04Q-1212E1-402M2X2	80min	4,000K				6,166	169		
	CLU04Q-1212E1-502M2X2	80min	5,000K				6,147	168		
	CLU04Q-1212E1-572M2X2	80min	5,700K				6,085	167		
	CLU04Q-1212E1-652M2X2	80min	6,500K				6,027	165		
	CLU04Q-1212E1-272H5X3	90min	2,700K				4,864	133		
	CLU04Q-1212E1-302H5X3	90min	3,000K				5,184	142		
	CLU04Q-1212E1-352H5X3	90min	3,500K				5,284	145		
	CLU04Q-1212E1-402H5X3	90min	4,000K				5,476	150		
	CLU04Q-1212E1-572H5X3	90min	5,700K				5,403	148		
	CLU04Q-1212E1-272H6X3	90min below	2,700K				4,666	128		
	CLU04Q-1212E1-302H6X3	90min below	3,000K				4,950	136		
	CLU04Q-1212E1-352H6X3	90min below	3,500K				5,140	141		
	CLU04Q-1212E1-303L7X4	70min	3,000K				6,428	176		
	CLU04Q-1212E1-403L7X4	70min	4,000K				6,465	177		
	CLU04Q-1212E1-503L7X4	70min	5,000K				6,489	178		
	CLU04Q-1212E1-272H7X5	97typ	2,700K				4,310	118		
	CLU04Q-1212E1-302H7X5	97typ	3,000K				4,527	124		
	CLU04Q-1212E1-402H7X5	97typ	4,000K				4,771	131		
 CLU04Q	CLU04Q-1812E1-272M2X2	80min	2,700K	1,080	50.7	54.8	8,248	151	0.24	2,760
	CLU04Q-1812E1-302M2X2	80min	3,000K				8,635	158		
	CLU04Q-1812E1-352M2X2	80min	3,500K				8,747	160		
	CLU04Q-1812E1-402M2X2	80min	4,000K				8,838	161		
	CLU04Q-1812E1-502M2X2	80min	5,000K				8,927	163		
	CLU04Q-1812E1-572M2X2	80min	5,700K				8,839	161		
	CLU04Q-1812E1-652M2X2	80min	6,500K				8,821	161		
	CLU04Q-1812E1-272H5X3	90min	2,700K				7,117	130		
	CLU04Q-1812E1-302H5X3	90min	3,000K				7,588	139		
	CLU04Q-1812E1-352H5X3	90min	3,500K				7,742	141		
	CLU04Q-1812E1-402H5X3	90min	4,000K				8,055	147		
	CLU04Q-1812E1-572H5X3	90min	5,700K				8,022	147		
	CLU04Q-1812E1-272H6X3	90min below	2,700K				6,730	123		
	CLU04Q-1812E1-302H6X3	90min below	3,000K				7,206	132		
	CLU04Q-1812E1-352H6X3	90min below	3,500K				7,545	138		
	CLU04Q-1812E1-303L7X4	70min	3,000K				9,314	170		
	CLU04Q-1812E1-403L7X4	70min	4,000K				9,369	171		
	CLU04Q-1812E1-503L7X4	70min	5,000K				9,512	174		
	CLU04Q-1812E1-272H7X5	97typ	2,700K				6,307	115		
	CLU04Q-1812E1-302H7X5	97typ	3,000K				6,627	121		
	CLU04Q-1812E1-402H7X5	97typ	4,000K				6,954	127		
 CLU04Q	CLU04Q-1818E1-272M2X2	80min	2,700K	1,620	50.7	82.1	12,123	148	0.16	4,140
	CLU04Q-1818E1-302M2X2	80min	3,000K				12,796	156		
	CLU04Q-1818E1-352M2X2	80min	3,500K				12,870	157		
	CLU04Q-1818E1-402M2X2	80min	4,000K				12,953	158		
	CLU04Q-1818E1-502M2X2	80min	5,000K				13,100	159		
	CLU04Q-1818E1-572M2X2	80min	5,700K				12,969	158		
	CLU04Q-1818E1-652M2X2	80min	6,500K				12,877	157		
	CLU04Q-1818E1-272H5X3	90min	2,700K				10,391	127		
	CLU04Q-1818E1-302H5X3	90min	3,000K				11,076	135		
	CLU04Q-1818E1-352H5X3	90min	3,500K				11,491	140		
	CLU04Q-1818E1-402H5X3	90min	4,000K				11,959	146		
	CLU04Q-1818E1-572H5X3	90min	5,700K				11,975	146		
	CLU04Q-1818E1-272H6X3	90min below	2,700K				9,922	121		
	CLU04Q-1818E1-302H6X3	90min below	3,000K				10,686	130		
	CLU04Q-1818E1-352H6X3	90min below	3,500K				11,203	136		
	CLU04Q-1818E1-303L7X4	70min	3,000K				13,716	167		
	CLU04Q-1818E1-403L7X4	70min	4,000K				13,799	168		
	CLU04Q-1818E1-503L7X4	70min	5,000K				13,854	169		
	CLU04Q-1818E1-272H7X5	97typ	2,700K				9,221	112		
	CLU04Q-1818E1-302H7X5	97typ	3,000K				9,618	117		
	CLU04Q-1818E1-402H7X5	97typ	4,000K				10,283	125		

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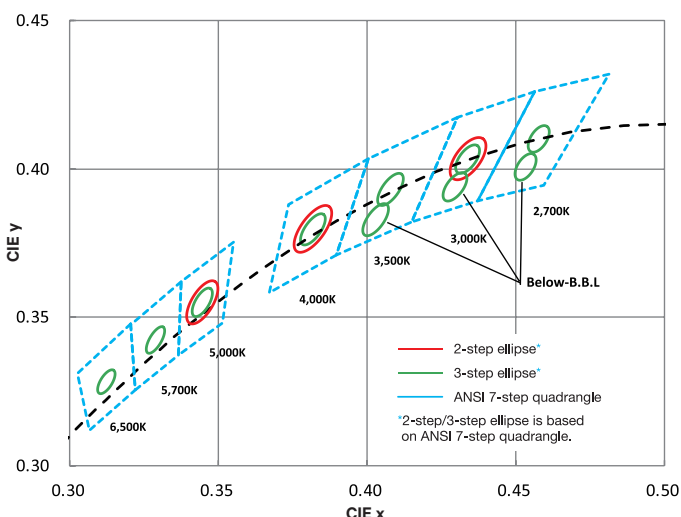
Product List

(Tj=85°C)

Package	Product code	Electro-optical Characteristics								Absolute Maximum Rating
		CRI	CCT	Forward current (mA)	Voltage Typ. (V)	Input power Typ. (W)	Luminous flux Typ. (lm)	Efficacy Typ. (lm/W)	Thermal resistance Rj-c (°C/W)	Forward current (mA)
 CLU05Q	CLU05Q-1825E1-272M2X2	80min	2,700K	2,250	50.7	114.1	17,134	150	0.14	5,750
	CLU05Q-1825E1-302M2X2	80min	3,000K				17,990	158		
	CLU05Q-1825E1-352M2X2	80min	3,500K				18,206	160		
	CLU05Q-1825E1-402M2X2	80min	4,000K				18,412	161		
	CLU05Q-1825E1-502M2X2	80min	5,000K				18,526	162		
	CLU05Q-1825E1-572M2X2	80min	5,700K				18,343	161		
	CLU05Q-1825E1-652M2X2	80min	6,500K				18,161	159		
	CLU05Q-1825E1-272H5X3	90min	2,700K				14,453	127		
	CLU05Q-1825E1-302H5X3	90min	3,000K				15,480	136		
	CLU05Q-1825E1-352H5X3	90min	3,500K				16,130	141		
	CLU05Q-1825E1-402H5X3	90min	4,000K				16,780	147		
	CLU05Q-1825E1-572H5X3	90min	5,700K				16,712	147		
	CLU05Q-1825E1-272H6X3	90min below	2,700K				14,020	123		
	CLU05Q-1825E1-302H6X3	90min below	3,000K				15,012	132		
	CLU05Q-1825E1-352H6X3	90min below	3,500K				15,720	138		
	CLU05Q-1825E1-303L7X4	70min	3,000K				19,404	170		
	CLU05Q-1825E1-403L7X4	70min	4,000K				19,518	171		
	CLU05Q-1825E1-503L7X4	70min	5,000K				19,632	172		
	CLU05Q-1825E1-272H7X5	97typ	2,700K				12,948	114		
	CLU05Q-1825E1-302H7X5	97typ	3,000K				13,609	119		
	CLU05Q-1825E1-402H7X5	97typ	4,000K				14,488	127		
 CLU05Q	CLU05Q-3618E1-272M2X2	80min	2,700K	1,620	101.4	164.3	24,246	148	0.10	4,140
	CLU05Q-3618E1-302M2X2	80min	3,000K				25,593	156		
	CLU05Q-3618E1-352M2X2	80min	3,500K				25,741	157		
	CLU05Q-3618E1-402M2X2	80min	4,000K				25,905	158		
	CLU05Q-3618E1-502M2X2	80min	5,000K				26,201	160		
	CLU05Q-3618E1-572M2X2	80min	5,700K				25,938	158		
	CLU05Q-3618E1-652M2X2	80min	6,500K				25,675	156		
	CLU05Q-3618E1-272H5X3	90min	2,700K				20,468	125		
	CLU05Q-3618E1-302H5X3	90min	3,000K				22,028	134		
	CLU05Q-3618E1-352H5X3	90min	3,500K				22,981	140		
	CLU05Q-3618E1-402H5X3	90min	4,000K				23,917	146		
	CLU05Q-3618E1-572H5X3	90min	5,700K				23,950	146		
	CLU05Q-3618E1-272H6X3	90min below	2,700K				19,844	121		
	CLU05Q-3618E1-302H6X3	90min below	3,000K				21,371	130		
	CLU05Q-3618E1-352H6X3	90min below	3,500K				22,406	136		
	CLU05Q-3618E1-303L7X4	70min	3,000K				27,433	167		
	CLU05Q-3618E1-403L7X4	70min	4,000K				27,597	168		
	CLU05Q-3618E1-503L7X4	70min	5,000K				27,597	168		
	CLU05Q-3618E1-272H7X5	97typ	2,700K				18,332	112		
	CLU05Q-3618E1-302H7X5	97typ	3,000K				19,236	117		
	CLU05Q-3618E1-402H7X5	97typ	4,000K				20,566	125		

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Chromaticity Range



Note : The measurement temperature is specified at Tj=85°C .

Contact

Website <https://ce.citizen.co.jp/e/>
 Sales Network https://ce.citizen.co.jp/productse/sales_network
 Requests / Inquiries E-mail : cej-inquiry@ml.citizen.co.jp

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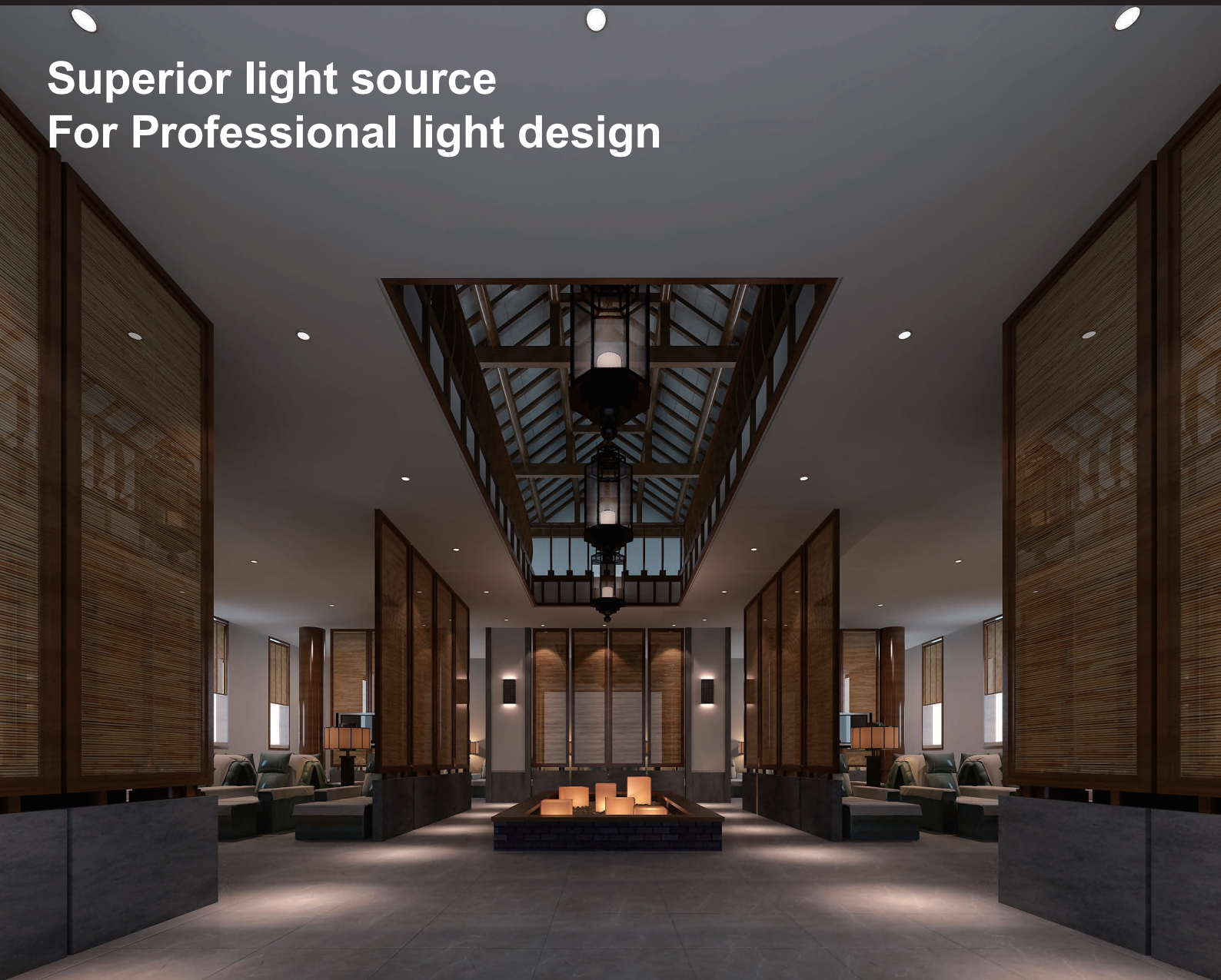
CITIZEN ELECTRONICS CO., LTD.

CITILED

High Intensity COB Series Ver.4

CITILED
The Light Engine

Superior light source
For Professional light design



The world's smallest LES COB, $\Phi 2.4\text{mm}$ ^(*)

Added the industry's smallest class lineup (LES $\Phi 2.4\text{mm}$)

^{*}1 : According to our investigation as of September 2021.

Super High CRI with Narrower LES

High Intensity Series Ver.4 has realized the production of Super High CRI (CRI97) through the use of our advanced phosphor and packaging technology.



CLU7L3^{(*)2}



CLU7S3^{(*)2}



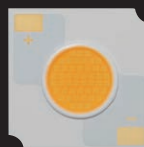
CLU7R3



CLU7A3



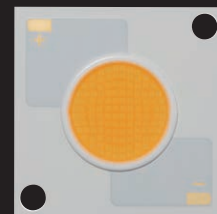
CLU703



CLU713



CLU723



CLU733

^{*}2 : Please contact our sales team as these products are under development as of November 2021.

* The pictures will be full-scale when it is printed in A4 size.

CITIZEN ELECTRONICS CO., LTD.

CITILED High Intensity COB Series Ver.4

Color Variation

Package	Die Configuration	80 CRI Min.					90 CRI Min.						Below B.B.L. 90 CRI Min.			Super High CRI 97 CRI Typ.			
		27	30	35	40	50	24	27	30	35	40	50	27	30	35	27	30	35	40
CLU7L3	0104	★	★	★	★	★	✓	✓	✓	✓	✓	★	★	✓	★	✓	✓	✓	✓
CLU7S3	0403	★	★	★	★	★	✓	✓	✓	✓	✓	★	★	✓	★	✓	✓	✓	✓
CLU7R3	0403	★	★	★	★	★	✓	✓	✓	✓	✓	★	★	✓	★	✓	✓	✓	✓
CLU7A3	0403	✓	✓	✓	✓	★	✓	✓	✓	✓	✓	★	★	✓	★	✓	✓	✓	✓
CLU7A3	1201	✓	✓	✓	✓	★	✓	✓	✓	✓	✓	★	★	✓	★	✓	✓	✓	✓
CLU703	1202	✓	✓	✓	✓	★	✓	✓	✓	✓	✓	★	★	✓	★	✓	✓	✓	✓
CLU713	1204	✓	✓	✓	✓	★	✓	✓	✓	✓	✓	★	★	✓	★	✓	✓	✓	✓
CLU723	1206	✓	✓	✓	✓	★	★	✓	✓	✓	✓	★	★	★	★	★	★	★	★
CLU733	1210	✓	✓	✓	✓	✓	★	✓	✓	✓	✓	★	★	★	★	★	★	★	★

Note : "★" indicate that optional color line up. Please contact our sales team if you are considering ordering the color which is except for standard line up.

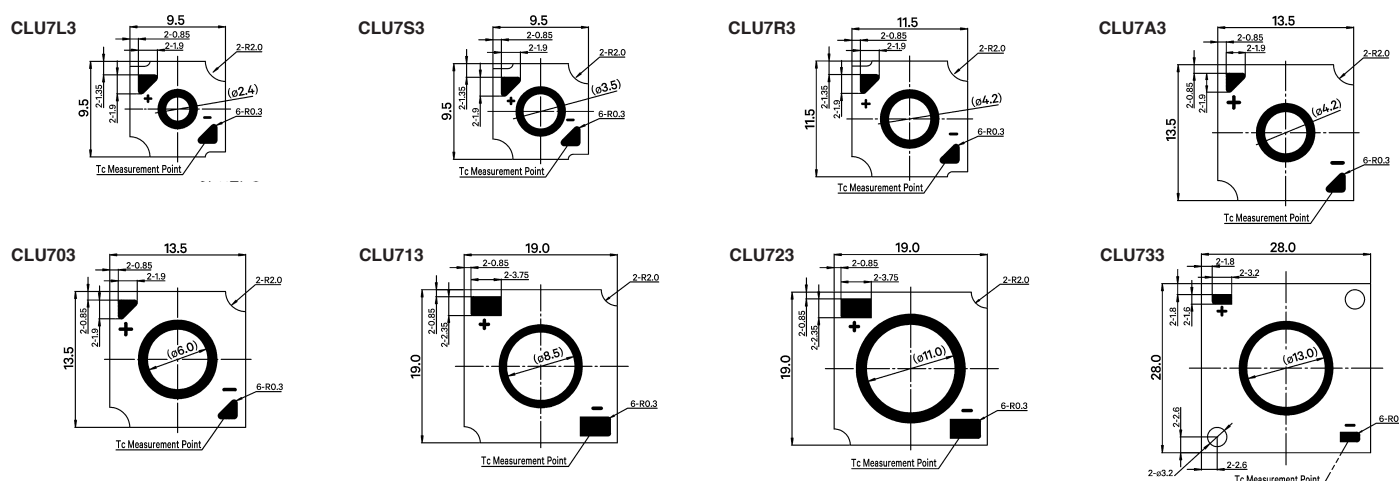
Representative specifications

(Tj=85°C)

Product code	Electro-optical Characteristics								Absolute Maximum Rating
	CRI	CCT	Forward current (mA)	Voltage Typ. (V)	Input power Typ. (W)	Luminous flux Typ. (lm)	Efficacy Typ. (lm/W)	Thermal resistance Rj-c (°C/W)	Forward current (mA)
CLU7L3-0104C4-303H5X3	90min	3,000K	700	3.1	2.2	210	97	9.9	1,000
CLU7S3-0403C4-303H5X3	90min	3,000K	525	12.2	6.4	624	97	3.9	750
CLU7R3-0403E1-303H5X3	90min	3,000K	525	12.2	6.4	711	111	4.0	900
CLU7A3-0403E1-303H5X3	90min	3,000K	525	12.2	6.4	711	111	3.4	900
CLU7A3-1201E1-303H5X3	90min	3,000K	175	36.5	6.4	711	111	3.4	300
CLU703-1202E1-303H5X3	90min	3,000K	350	36.5	12.8	1,432	112	1.7	600
CLU713-1204E1-303H5X3	90min	3,000K	700	36.5	25.6	2,900	113	0.95	1,200
CLU723-1206E1-303H5X3	90min	3,000K	1,050	36.5	38.3	4,411	115	0.62	1,380
CLU733-1210E1-303H5X3	90min	3,000K	1,750	36.5	63.9	7,164	112	0.35	2,300

Note : Please check the details of the release data and the latest specification of each product on our WEB site (<https://ce.citizen.co.jp/e/>).

Outline Drawing



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Contact

Website <https://ce.citizen.co.jp/e/>
 Sales Network https://ce.citizen.co.jp/productse/sales_network
 Requests / Inquiries E-mail : cej-inquiry@ml.citizen.co.jp

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Product List

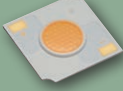
(T_J=85°C)

Package	Product code	Electro-optical Characteristics								Absolute Maximum Rating
		CRI	CCT	Forward current (mA)	Voltage Typ. (V)	Input power Typ. (W)	Luminous flux Typ. (lm)	Efficacy Typ. (lm/W)	Thermal resistance R _{J-c} (°C/W)	Forward current (mA)
 CLU7L3	CLU7L3-0104C4-243H5X3	90min	2,400K	700	3.1	2.2	184	85	9.9	1,000
	CLU7L3-0104C4-273H5X3	90min	2,700K				199	92		
	CLU7L3-0104C4-303H5X3	90min	3,000K				210	97		
	CLU7L3-0104C4-353H5X3	90min	3,500K				225	104		
	CLU7L3-0104C4-403H5X3	90min	4,000K				227	105		
	CLU7L3-0104C4-303H6X3	90min below	3,000K				204	94		
	CLU7L3-0104C4-273H7X5	97typ	2,700K				178	82		
	CLU7L3-0104C4-303H7X5	97typ	3,000K				189	87		
	CLU7L3-0104C4-353H7X5	97typ	3,500K				199	92		
	CLU7L3-0104C4-403H7X5	97typ	4,000K				206	95		
 CLU7S3	CLU7S3-0403C4-243H5X3	90min	2,400K	525	12.2	6.4	560	87	3.9	750
	CLU7S3-0403C4-273H5X3	90min	2,700K				583	91		
	CLU7S3-0403C4-303H5X3	90min	3,000K				624	97		
	CLU7S3-0403C4-353H5X3	90min	3,500K				678	106		
	CLU7S3-0403C4-403H5X3	90min	4,000K				683	107		
	CLU7S3-0403C4-303H6X3	90min below	3,000K				605	95		
	CLU7S3-0403C4-273H7X5	97typ	2,700K				531	83		
	CLU7S3-0403C4-303H7X5	97typ	3,000K				573	89		
	CLU7S3-0403C4-353H7X5	97typ	3,500K				595	93		
	CLU7S3-0403C4-403H7X5	97typ	4,000K				615	96		
 CLU7R3	CLU7R3-0403E1-243H5X3	90min	2,400K	525	12.2	6.4	628	98	4.0	900
	CLU7R3-0403E1-273H5X3	90min	2,700K				681	106		
	CLU7R3-0403E1-303H5X3	90min	3,000K				711	111		
	CLU7R3-0403E1-353H5X3	90min	3,500K				746	116		
	CLU7R3-0403E1-403H5X3	90min	4,000K				761	119		
	CLU7R3-0403E1-303H6X3	90min below	3,000K				697	109		
	CLU7R3-0403E1-273H7X5	97typ	2,700K				598	93		
	CLU7R3-0403E1-303H7X5	97typ	3,000K				637	99		
	CLU7R3-0403E1-353H7X5	97typ	3,500K				677	106		
	CLU7R3-0403E1-403H7X5	97typ	4,000K				697	109		
 CLU7A3	CLU7A3-0403E1-273M2X2	80min	2,700K	525	12.2	6.4	800	125	3.4	900
	CLU7A3-0403E1-303M2X2	80min	3,000K				811	127		
	CLU7A3-0403E1-353M2X2	80min	3,500K				851	133		
	CLU7A3-0403E1-403M2X2	80min	4,000K				868	136		
	CLU7A3-0403E1-243H5X3	90min	2,400K				628	98		
	CLU7A3-0403E1-273H5X3	90min	2,700K				681	106		
	CLU7A3-0403E1-303H5X3	90min	3,000K				711	111		
	CLU7A3-0403E1-353H5X3	90min	3,500K				746	116		
	CLU7A3-0403E1-403H5X3	90min	4,000K				761	119		
	CLU7A3-0403E1-303H6X3	90min below	3,000K				697	109		
	CLU7A3-0403E1-273H7X5	97typ	2,700K				598	93		
	CLU7A3-0403E1-303H7X5	97typ	3,000K				637	99		
	CLU7A3-0403E1-353H7X5	97typ	3,500K				677	106		
	CLU7A3-0403E1-403H7X5	97typ	4,000K				697	109		

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Product List

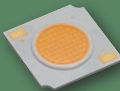
(T_J=85°C)

Package	Product code	Electro-optical Characteristics								Absolute Maximum Rating
		CRI	CCT	Forward current (mA)	Voltage Typ. (V)	Input power Typ. (W)	Luminous flux Typ. (lm)	Efficacy Typ. (lm/W)	Thermal resistance R _{J-c} (°C/W)	Forward current (mA)
 CLU7A3	CLU7A3-1201E1-273M2X2	80min	2,700K	175	36.5	6.4	800	125	3.4	300
	CLU7A3-1201E1-303M2X2	80min	3,000K				811	127		
	CLU7A3-1201E1-353M2X2	80min	3,500K				851	133		
	CLU7A3-1201E1-403M2X2	80min	4,000K				868	136		
	CLU7A3-1201E1-243H5X3	90min	2,400K				628	98		
	CLU7A3-1201E1-273H5X3	90min	2,700K				681	107		
	CLU7A3-1201E1-303H5X3	90min	3,000K				711	111		
	CLU7A3-1201E1-353H5X3	90min	3,500K				746	117		
	CLU7A3-1201E1-403H5X3	90min	4,000K				761	119		
	CLU7A3-1201E1-303H6X3	90min below	3,000K				697	109		
	CLU7A3-1201E1-273H7X5	97typ	2,700K				598	94		
	CLU7A3-1201E1-303H7X5	97typ	3,000K				637	100		
	CLU7A3-1201E1-353H7X5	97typ	3,500K				677	106		
	CLU7A3-1201E1-403H7X5	97typ	4,000K				697	109		
 CLU703	CLU703-1202E1-273M2X2	80min	2,700K	350	36.5	12.8	1,574	123	1.7	600
	CLU703-1202E1-303M2X2	80min	3,000K				1,636	128		
	CLU703-1202E1-353M2X2	80min	3,500K				1,708	134		
	CLU703-1202E1-403M2X2	80min	4,000K				1,733	136		
	CLU703-1202E1-243H5X3	90min	2,400K				1,242	97		
	CLU703-1202E1-273H5X3	90min	2,700K				1,356	106		
	CLU703-1202E1-303H5X3	90min	3,000K				1,432	112		
	CLU703-1202E1-353H5X3	90min	3,500K				1,498	117		
	CLU703-1202E1-403H5X3	90min	4,000K				1,529	120		
	CLU703-1202E1-303H6X3	90min below	3,000K				1,403	110		
	CLU703-1202E1-273H7X5	97typ	2,700K				1,196	94		
	CLU703-1202E1-303H7X5	97typ	3,000K				1,280	100		
	CLU703-1202E1-353H7X5	97typ	3,500K				1,340	105		
	CLU703-1202E1-403H7X5	97typ	4,000K				1,391	109		
 CLU713	CLU713-1204E1-273M2X2	80min	2,700K	700	36.5	25.6	3,192	125	0.95	1,200
	CLU713-1204E1-303M2X2	80min	3,000K				3,339	131		
	CLU713-1204E1-353M2X2	80min	3,500K				3,415	134		
	CLU713-1204E1-403M2X2	80min	4,000K				3,498	137		
	CLU713-1204E1-243H5X3	90min	2,400K				2,558	100		
	CLU713-1204E1-273H5X3	90min	2,700K				2,709	106		
	CLU713-1204E1-303H5X3	90min	3,000K				2,900	113		
	CLU713-1204E1-353H5X3	90min	3,500K				2,985	117		
	CLU713-1204E1-403H5X3	90min	4,000K				3,120	122		
	CLU713-1204E1-303H6X3	90min below	3,000K				2,842	111		
	CLU713-1204E1-273H7X5	97typ	2,700K				2,429	95		
	CLU713-1204E1-303H7X5	97typ	3,000K				2,600	102		
	CLU713-1204E1-353H7X5	97typ	3,500K				2,701	106		
	CLU713-1204E1-403H7X5	97typ	4,000K				2,811	110		

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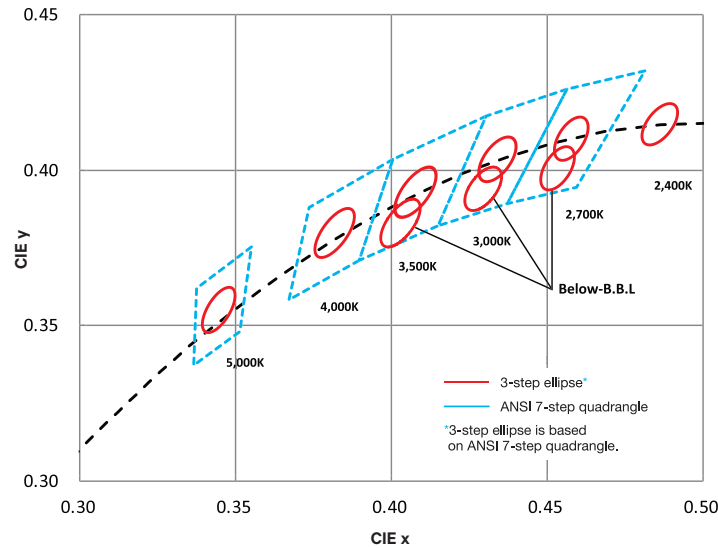
Product List

(Tj=85°C)

Package	Product code	Electro-optical Characteristics								Absolute Maximum Rating
		CRI	CCT	Forward current (mA)	Voltage Typ. (V)	Input power Typ. (W)	Luminous flux Typ. (lm)	Efficacy Typ. (lm/W)	Thermal resistance Rj-c (°C/W)	Forward current (mA)
 CLU723	CLU723-1206E1-273M2X2	80min	2,700K	1,050	36.5	38.3	4,801	125	0.62	1,380
	CLU723-1206E1-303M2X2	80min	3,000K				5,013	131		
	CLU723-1206E1-353M2X2	80min	3,500K				5,178	135		
	CLU723-1206E1-403M2X2	80min	4,000K				5,305	138		
	CLU723-1206E1-273H5X3	90min	2,700K				4,170	109		
	CLU723-1206E1-303H5X3	90min	3,000K				4,411	115		
	CLU723-1206E1-353H5X3	90min	3,500K				4,625	121		
	CLU723-1206E1-403H5X3	90min	4,000K				4,603	120		
 CLU733	CLU733-1210E1-273M2X2	80min	2,700K	1,750	36.5	63.9	7,809	122	0.35	2,300
	CLU733-1210E1-303M2X2	80min	3,000K				8,141	127		
	CLU733-1210E1-353M2X2	80min	3,500K				8,486	133		
	CLU733-1210E1-403M2X2	80min	4,000K				8,598	135		
	CLU733-1210E1-503M2X2	80min	5,000K				8,705	136		
	CLU733-1210E1-273H5X3	90min	2,700K				6,855	107		
	CLU733-1210E1-303H5X3	90min	3,000K				7,164	112		
	CLU733-1210E1-353H5X3	90min	3,500K				7,692	120		
	CLU733-1210E1-403H5X3	90min	4,000K				7,856	123		

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Chromaticity Range



Note : The measurement temperature is specified at Tj=85°C .



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