

Precautions for use of Compact Chip LED products

- (1) When adopting the product for mass production, please exchange formal specifications with us.
- (2) Do not reverse-engineer the product including disassemble or analyze without our approval.
- (3) The product is not in conformity to IATF16949 or intended to be used for in-vehicle application. The product is not designed or manufactured to be used for special application (e.g. trains, ships, airplanes, spaceships, submarine repeaters, atomic energy control systems, traffic equipment, combustion equipment, medical devices, and safety devices). We will not guarantee any application suitability for goods like those described above that require special quality and reliability. In cases where the product is used in special applications and it causes extensive property damage, threatens human life or damages the human body, we will not be held liable.
- (4) The specification and appearance of the product may change without notice for improvement, etc.
- (5) This technical information and data is provided for users as is, and we do not guarantee that it is free from errors or defect in technical information and data, or this technical information and data conform to special applications, or this technical information and data does not infringe any rights of the user or third parties other than the user, or any other contents (including changes in contents for improvement of the specification and appearance of the product) thereof.

CL-503 Series



1.5(L) ×
1.3(W) × 0.35(H)mm

特徴 Features

1. 同一パッケージで3色発光
3 colors emitting from a single package
2. 上面発光、超小型・薄型
Upward-lighting, ultra-compact/thin type

●絶対最大定格 Absolute Maximum Rating

(Ta 25°C)

Product code	Color variation	P* ¹ (mW)	Pd (mW)	IF (mA)	IFP (mA)	VR (V)	Top (°C)	Tst (°C)
CL-503S-TCC	Red	125	78	30	100* ²	4	-25~+80	-30~+85
	Green		80	20				
	Blue		73	20				

(Ta 25°C)

Product code	Color variation	P* ¹ (mW)	Pd (mW)	IF (mA)	IFP (mA)	VR (V)	Top (°C)	Tst (°C)
CL-503T	Red	125	78	30	100* ²	4	-25~+80	-30~+85
	Green		76	20				
	Blue		72	20				

* 1 Pは同時点灯時の全許容損失を示します。/ * 2 IFPの条件はduty 1/10、パルス幅0.1msecです。

* 1 P means total value of power dissipation when both colors are on./ * 2 Conditions for IFP are pulse of 1/10 duty and 0.1msec width.

●電気的光学的特性 Electrical and Optical Characteristics

[CL-503S-TCC]

(Ta 25°C)

Parameter	Color variation	Symbol	Conditions	MIN	TYP	MAX	Unit
順電圧 Forward Voltage	Red	VF	IF=5mA	—	1.85	2.47	V
	Green			—	2.70	3.19	
	Blue			—	2.75	3.19	
逆電流 Reverse Current	Red	IR	VR=4V	—	—	100	μA
	Green			—	—	2	
	Blue			—	—	2	
光度 Luminous Intensity*	Red	Iv	IF=5mA	17	33	—	mcd
	Green			82	220	—	
	Blue			18	65	—	
ドミナント波長 Dominant Wavelength	Red	λd	IF=5mA	—	618	—	nm
	Green			—	530	—	
	Blue			—	470	—	

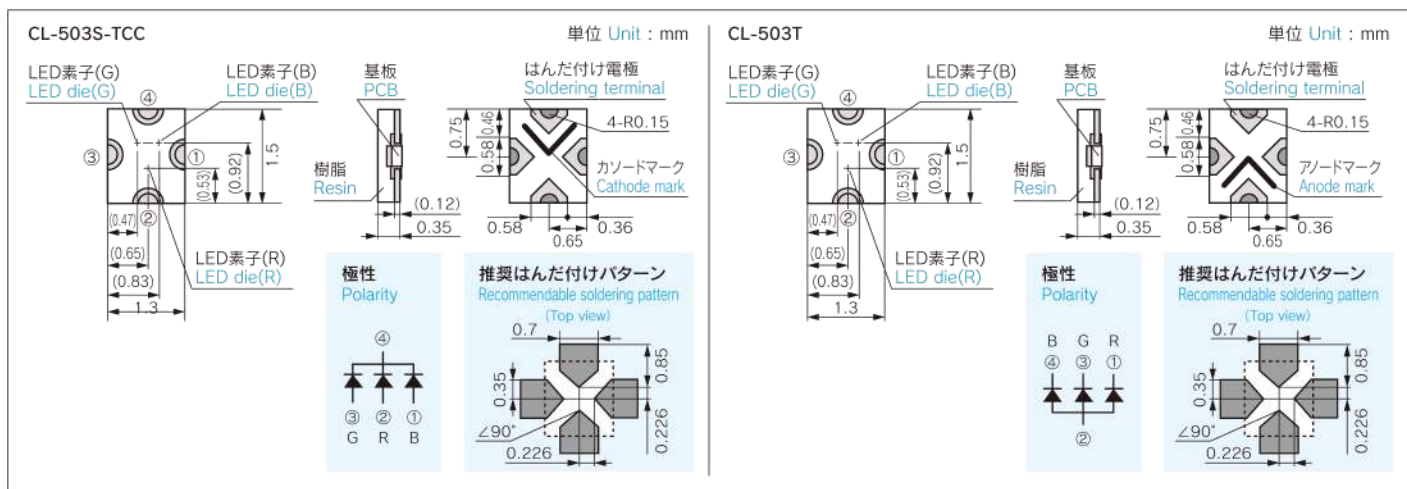
[CL-503T]

(Ta 25°C)

Parameter	Color variation	Symbol	Conditions	MIN	TYP	MAX	Unit
順電圧 Forward Voltage	Red	VF	IF=5mA	1.36	1.85	2.47	V
	Green			2.33	2.70	3.19	
	Blue			2.33	2.75	3.19	
逆電流 Reverse Current	Red	IR	VR=4V	—	—	100	μA
	Green			—	—	2	
	Blue			—	—	2	
光度 Luminous Intensity*	Red	Iv	IF=5mA	16	36	79	mcd
	Green			55	180	330	
	Blue			11	40	88	
ドミナント波長 Dominant Wavelength	Red	λd	IF=5mA	603	618	642	nm
	Green			518	530	542	
	Blue			461	470	477	

* NIST規格に準拠 * Compliant with NIST standards

●外形寸法図 Outline drawing



包装数量: 5,000個/1リール(φ 180mm) Loaded quantity: 5,000pcs./1 reel (φ 180mm)