

# CL-690S Series

LED For Flash Light Source **CL-690S Series**



3.3(L)×3.3(W)×1.5(H)mm

- リフレクター付きの高出力タイプです。
- リフレクター形状を最適化することにより、小型化・高出力化を両立しています。
- High output type with reflector equipped.
- Compatibility achieved between compact design and high power thanks to optimization of reflector shape.

## ●絶対最大定格 Absolute Maximum Rating<sup>※1</sup>

(Ta 25°C)

Product code	Pd (mW)	IF (mA)	IFP <sup>※2</sup> (mA)	VR (V)	Top (°C)	Tst (°C)
CL-690S-WQ	72	20	100	5	-25~+80	-30~+85
CL-690S-2WQ						
CL-690S-3WQ						

※1 1素子当たりの値です。The values are based on 1-die performance.

※2 IFPの条件はduty1/10、パルス巾30msecです。Condition for IFP is pulse of 1/10 duty and 30msec width.

## ●電氣的光学的特性 Electro-optical Characteristics

(Ta 25°C)

Parameter	Symbol	Conditions	MIN	TYP	MAX	Unit	
順電圧 Forward Voltage <sup>※1</sup>	VF	IF=20mA	-	3.2	3.6	V	
							CL-690S-WQ
							CL-690S-2WQ CL-690S-3WQ
逆電流 Reverse Current <sup>※1</sup>	IR	VR=5V	-	-	100	μA	
光度 Luminous Intensity <sup>※2</sup>	lv	IF=20mA	2.8	5.0	5.6	-	
							CL-690S-WQ
							CL-690S-2WQ CL-690S-3WQ
色度座標 Chromaticity coordinates <sup>※3</sup>	x, y	IF=20mA	x(±0.02)		y(±0.02)		cd
			a	0.27	0.22		
			b	0.27	0.29		
			c	0.35	0.40		
			d	0.35	0.33		

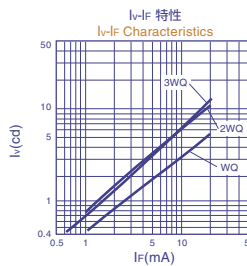
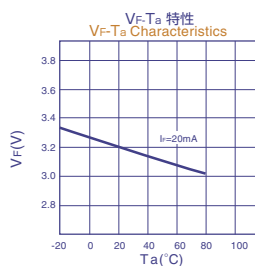
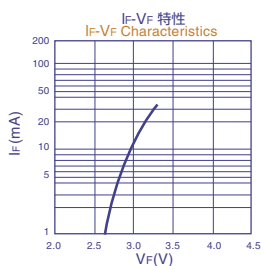
※1 1素子当たりの値です。The values are based on 1-die performance.

※2 NIST規格に準拠、各素子同時点灯時の値です。

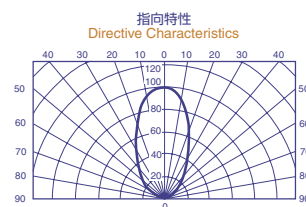
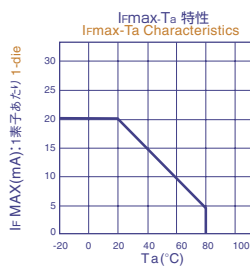
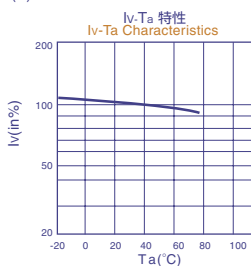
Compliant with NIST. The values are based on the condition that each die lights simultaneously.

※3 色度座標は、a, b, c, dに囲まれた範囲です。Chromaticity coordinates is surrounded with a,b,c,d.

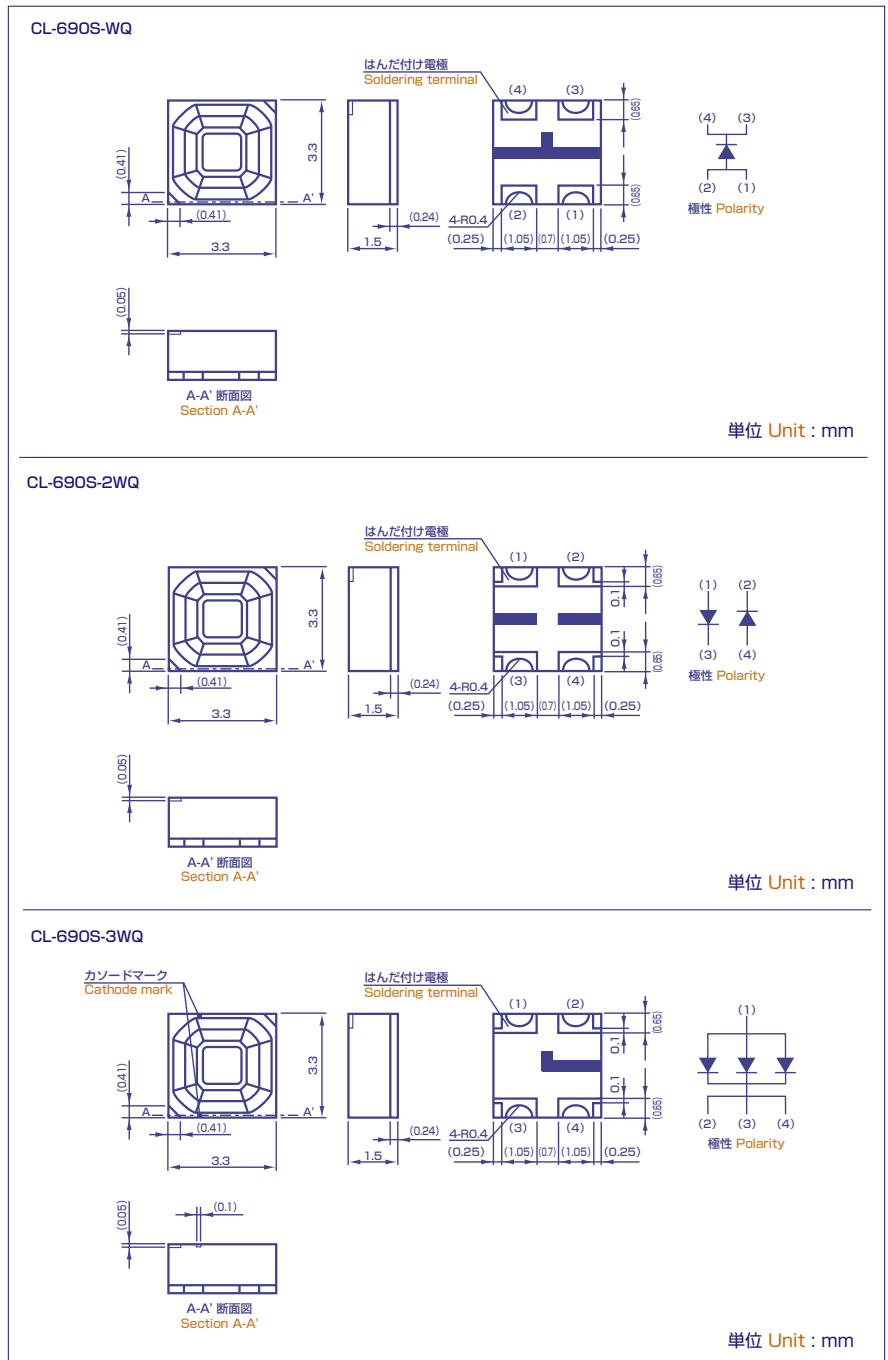
## ■ 諸特性 Characteristics



\*lv (cd) の数値は、2WQは「2素子合計」、3WQは「3素子合計」となります。  
lv (cd) for 2WQ is the 2-die total, that for 3WQ is the 3-die total.



## ●外形寸法図 Outline drawing



### 推奨はんだ付けパターン

The following soldering patterns are recommended for reflow-soldering:

CL-690S-WQ  
CL-690S-2WQ  
CL-690S-3WQ

