

# CL-690S シリーズ

LED For Flash Light Source CL-690S Series



- 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-WN	72	20	100	5	-25~+80	-30~+85
CL-690S-2WN						
CL-690S-3WN						
CL-690S-WQ						
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duty 1/10、パルス巾30msecです。/Condition for IFP is pulse of 1/10 duty and 30msec width.

## ●電気的光学的特性/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-WN
							CL-690S-2WN
							CL-690S-3WN
							CL-690S-WQ
							CL-690S-2WQ
逆電流/Reverse Current <sup>※1</sup>	IR	VR=5V	-	-	100	μA	
光度 /Luminous Intensity <sup>※2</sup>	Iv	IF=20mA	-	2.4	4.0	cd	
				CL-690S-WN			
				CL-690S-2WN	4.9		8.8
				CL-690S-3WN	7.2		12.0
				CL-690S-WQ	2.8		5.6
				CL-690S-2WQ	5.0		10.1
色度座標/Chromaticity coordinates <sup>※3</sup>	x, y	IF=20mA	x(±0.02)		y(±0.02)		
			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。

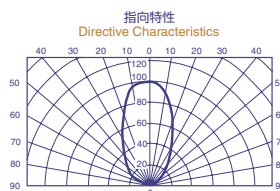
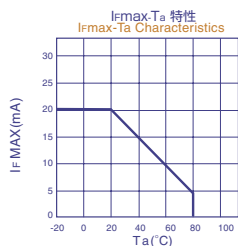
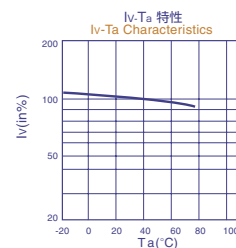
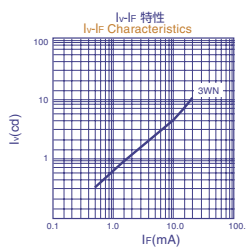
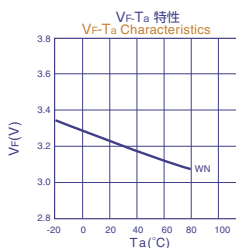
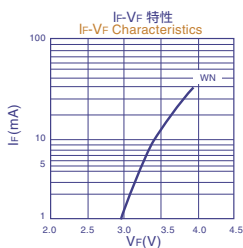
Compliant with NIST. The values are based on the condition that each die lights simultaneously.

※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

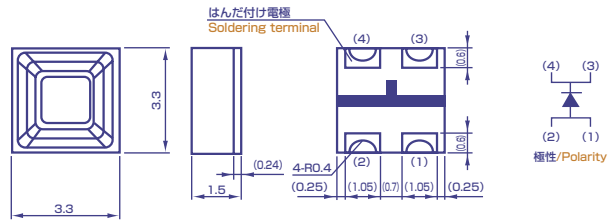
\* <WQ>につきましてはカタログ不掲載のため、詳細につきましてはお問い合わせください。

\* <WQ> are not listed in this catalog. Please consult with us for details.

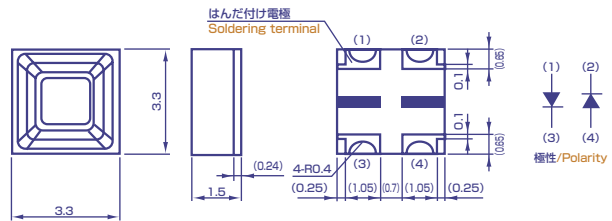


## ●外形寸法図/Outline drawing

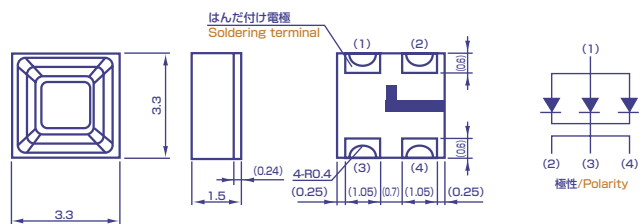
CL-690S-WN, CL-690S-WQ



CL-690S-2WN, CL-690S-2WQ



CL-690S-3WN, CL-690S-3WQ



単位/Unit : mm

### 推奨はんた付けパターン

The following soldering patterns are recommended for reflow-soldering:

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

