

2.8(L)×1.0(W)×0.8(H)mm

- 薄型バックライト用の白色LEDです。推奨導光板は0.8mm厚です。

- White LED for thin-shaped backlight. Recommended thickness of optical waveguide is 0.8 mm.

●絶対最大定格/Absolute Maximum Rating※1

(Ta 25℃)

Product code	Pd (mW)	IF (mA)	IFP※2 (mA)	VR (V)	Top (℃)	Tst (℃)
CL-431F-WN	114	30	100	5	-25~+85	-30~+90
CL-431F-WQ	114	30	100	5	-25~+85	-30~+90

※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℃)

Parameter		Symbol	Conditions	MIN	TYP	MAX	Unit
順電圧/ Forward Voltage※1	CL-431F-WN	V _F	I _F =20mA	—	3.2	3.6	V
	CL-431F-WQ			—	3.3	3.6	
逆電流/Reverse Current※1		I _R	V _R =5V	—	—	2	μA
光度/ Luminous Intensity※2	CL-431F-WN	I _v	I _F =20mA	1000	1510	—	mcd
	CL-431F-WQ			1440	1800	—	
色度座標/Chromaticity coordinates※3		x, y	I _F =20mA	x(±0.02)		y(±0.02)	
				a	0.268	0.228	
				b	0.284	0.256	
				c	0.309	0.286	
				d	0.307	0.308	
				e	0.275	0.275	
				f	0.252	0.247	

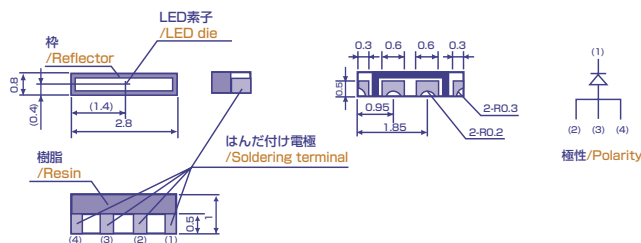
※1 1素子当たりの値です。/The values are based on 1-die performance.

※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, e, fに囲まれた範囲です。/Chromaticity coordinates is surrounded with a, b, c, d, e, f.

●外形寸法図/Outline drawing



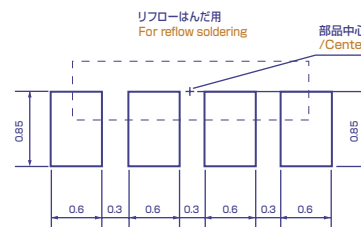
※外形寸法図は、<WN> <WQ>とも共通となります。

※The dimensional outline drawings are common in <WN>, and <WQ>.

単位/Unit : mm

推奨はんだ付けパターン

The following soldering patterns are recommended for reflow-soldering:



■諸特性/Characteristics

