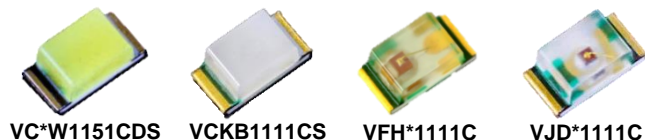




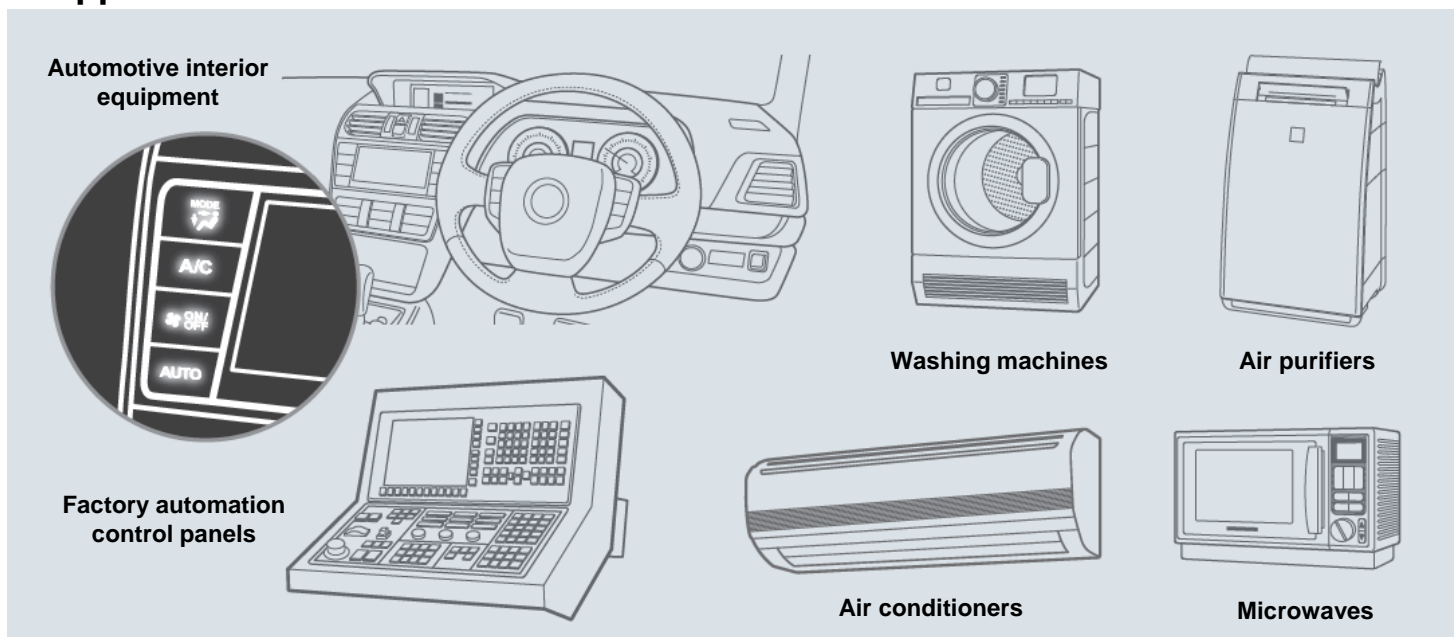
Stanley Electric's 1608-size LEDs Wide distribution angle

Compact 1608-size standard package

Enables greater design freedom
Automotive qualified



◆ Applications



◆ Features

- Lineup of 1608-size surface mount LED packages using the same solder pad
- Color, brightness, light distribution variations available
(Narrow distribution angle "1104P type" / Super narrow distribution "1116P type" also available)
- Can be used for switches backlighting and as a light source for indicators
- Can be used even in high temperature environments

◆ Lineup

Light distribution angle	Product series	Light distribution	Color lineup								
			White	Blue	Green	Pure green	Yellow green	Yellow	Orange	Vermillion	Red
Wide	1111C	Standard	● VCEW	● VCDB	● VCDG	● VFHL	● VFHD	● VFHY	● VFHA	● VFHV	● VFHR
		Bright	● VCKW	● VCKB				● VFJY	● VFJA	● VFJV	● VFJR

The above icons are for reference and may differ from the actual colors.

Specifications

Type	Emitted color	Part name	Chromaticity coordinates ※1		Dominant wavelength λ_d Typ.	Luminous intensity I_v Typ.	Forward voltage V_F Typ.	Half-intensity angle 2 $\theta_{1/2}$ (9x/9y)	Sorting current I_F	Operating temperature T_{opr}	Storage temperature T_{stg}
			Typ. x	Typ. y							
			Units			x	y	nm	mcd	V	deg.
Normal	White	VCEW1151CDS-3BZH3	0.281	0.263	—	120	3.1	160 / 168	10	-40 to +100	-40 to +110
	Blue	VCDB1111C-5AY3B	—	—	470	10	3.0	110 / 130	5	-40 to +100	-40 to +105
	Green	VCDG1111C-4BY3C	—	—	530	100	3.0	110 / 130	5	-40 to +100	-40 to +105
	Pure green	VFHL1111C-4B23C	—	—	562	18	1.9	140 / 150	20	-40 to +100	-40 to +105
	Yellow green	VFHD1111C-3B72B	—	—	572	43	1.9	140 / 150	20	-40 to +100	-40 to +105
	Yellow	VFHY1111C-3BX2D	—	—	590	75	1.9	140 / 150	20	-40 to +100	-40 to +105
	Orange	VFHA1111C-3BZ2C	—	—	605	110	1.9	140 / 150	20	-40 to +100	-40 to +105
	Vermillion	VFHV1111C-3BY2B	—	—	615	91	1.9	140 / 150	20	-40 to +100	-40 to +105
	Red	VFHR1111C-3BY2A	—	—	626	91	1.9	140 / 150	20	-40 to +100	-40 to +105
Bright	White	VCKW1151CDS-3C6L3	0.316	0.316	—	350	3.3	160 / 168	20	-40 to +100	-40 to +110
	Blue	VCKB1111CS	—	—	468	110	3.3	155 / 165	20	-40 to +100	-40 to +110
	Yellow	VJDY1111C-4C54C	—	—	589	330	2.1	140 / 140	20	-40 to +100	-40 to +105
	Orange	VJDA1111C-4C72C	—	—	606	470	2.1	140 / 140	20	-40 to +100	-40 to +105
	Vermillion	VJDV1111C-4C74C	—	—	616	470	2.1	140 / 140	20	-40 to +100	-40 to +105
	Red	VJDR1111C-4C52A	—	—	626	330	2.1	140 / 140	20	-40 to +100	-40 to +105
	Red	VJDR1111C-4C21C	—	—	635	180	2.1	140 / 140	20	-40 to +100	-40 to +105

※1. In accordance with CIE1931 Conditions : $T_a=25^\circ\text{C}$

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Outline dimensions (Unit : mm)

VC*W1151CS VCKB1111CS	<p>Dimensions: 0.8, 1.6, 0.7, 0.2, 1.2, 1.1, 0.6, 0.5, 0.5. Tolerance: ± 0.1. Labels: Anode, Cathode, Polarity mark, Cathode mark.</p>	<p>はんだ付け推奨パターン Recommended soldering pad</p> <p>基板ソリ方向 PCB bending direction</p>
VCD*1111C VFH*1111C	<p>Dimensions: 0.8, 1.6, 0.28, 0.7, 0.2, 1.2, 1.1, 0.6, 0.35, 0.35. Tolerance: ± 0.1. Labels: Anode, Cathode, Polarity mark, Cathode mark.</p>	
VJD*1111C	<p>Dimensions: 0.8, 1.6, 0.7, 0.2, 1.2, 1.1, 0.6, 0.5, 0.5. Tolerance: ± 0.1. Labels: Anode, Cathode, Polarity mark, Cathode mark.</p>	