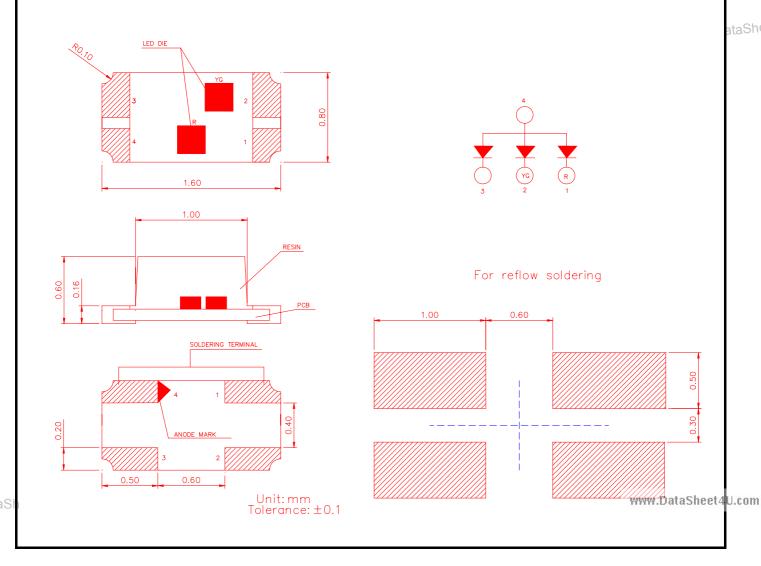
#### DATE: 05/20/2004 SMD LED : NO. 61L04001 cosmo REV. **KL195W01** 1 SHEET 1 OF 9 **ELECTRONICS CORPORATION** Features Package: 1.6x0.8x0.6mm(0603) standard package Feature of the device: extremely wide viewing angle; ideal for backlighting and coupling in light guides Wavelength: 640nm(red),570nm(Yellow green) Viewing angle: Extremely Wide( 130°) Grouping parameter: luminous intensity Assembly methods: suitable for all SMT assembly methods Soldering methods: IR reflow soldering Taping: Package in 8mm tape on 7" diameter reel

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#### **Package Dimensions**



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	cosmo	SMD LED :	3104		61L04001	REV.
	ECTRONICS CORPORATION	KL195		SHE	ET 2 OF 9	1
Ab	osolute Maximum	Ratings				
		At Ta = 2	25°C			
	Param	KL-195W01		Unit		
	Dower Die			YG		
	Power Dis	72	72	mW		
	Peak Forwa					
m	(1/10 Duty Cycle, 0.	<b>100</b> U.com		mA	Γ	
	Forward	30		mA		
	Reverse	5		V		
	Operating Temp	-25°C ~+ 80°C				
	Storage Tempe	-30°C ~+ 85℃				
	Wave Solderir	240°C For 10 Seconds				

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				<b>D</b> :					ATE: <u>05/</u>	20/200
E		0	SMD LE	۵: <b>۲۱۹۵۷</b>	V0′	1			_04001 3 OF 9	REV. 1
	Electrical & O	ptical (	Charac	cteristics						
				At Ta = 28	5°C					
	Parameter		Symbol	PART NO	Min.	Тур.	Max.	Unit	Test Co	ndition
	Luminous	Red	– Iv	KL-195W01	25	50	-	mcd	IF = 20mA Note 1	
	Intensity	Yellow Green			20	40	-			
	Viewing Angle	ewing Angle		Red/ Yellow Green	-	130	-	deg	Not	e 2
	Dominant Wavele	Dominant Wavelength		Red	-	640	-	nm	IF = 2	20mA
				Yellow Green	-	570	-		Note 3	
n	Spectral Line Half-Width		Δλ	itteu	om_	20	-	nm	-	
				Yellow Green	-	20	-			
	Forward Voltage		VF	Red	-	2.1	2.6	v	IF = 2	20mA
		r orward voltage		Yellow Green	-	2.2	2.6	Ť		
	Reverse Current		Ir	Red/ Yellow Green	-	-	100	μΑ	VR =	= 5V

Note :

- Luminous intensity is measured with a photo detector and filter combination that follows the CIE ete - response curve. And the equipment measured luminous intensity torellance is ±5%.
- 2. θ1/2 is the off axis angle at which the luminous intensity is half the axial luminous intensity.
- 3. The dominant wavelength,  $\lambda d$  is derived from the CIE chromaticity diagram and represents the color of the device.
- Caution in ESD:Static Electricity maybe cause damages to the LED. It is recommend to use a wrist band oranti - electrostatic glove when handing the LED. All devices, equipment and machinery must be properly grounded.

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COSMO		SMD LE	<sup>.</sup> □ : <b>(L195W01</b>	-	NO. 611 SHEET	L04001 4 OF 9	REV. 1	
The	Reliability	/ crite	ria of S	MD LED				
	ltem	Sv	mbol	Test Condition		Li	mit	
Item		Gymbol			Min –		Max U.S.L*1.2	
Forward Voltage		VF		IF=10mA				
Reverse Current Power		IR		VR=5V	_		U.S.L*2.0	
		PO		IF=10mA	L.S.L*0.7		_	
~	S.L: Lower S			DetaOhaat4Uhaam				
m	ults of Re	liabilit <sub>Item</sub>	y Test	DataSheet4U.com		est Cycles	Sample	D Ac / Re
Res	ults of Re	ltem			Hours/	est Cycles YCES		Ac / Re
Res NO	ults of Re	Item ature C	çycle	Test Condition H:+100°C 30min ∫ 5min	Hours/	Cycles	NO	Ac / Re 0 / 1
Res NO	ults of Re Temper	Item ature C erature	Sycle Storage	Test Condition H:+100℃ 30min ∫ 5min L: -40℃ 30min	Hours/ 100C	Cycles YCES	NO 11 PCS	Ac / Re 0 / 1
Res NO 1	ults of Re Temper High Tempe	Item ature C erature erature	Storage Storage	Test Condition H:+100°C 30min ∫ 5min L: -40°C 30min Temp : 100°C	Hours/ 100C 500I	Cycles YCES HRS	NO 11 PCS 11 PCS	Ac / Re 0 / 1 0 / 1

