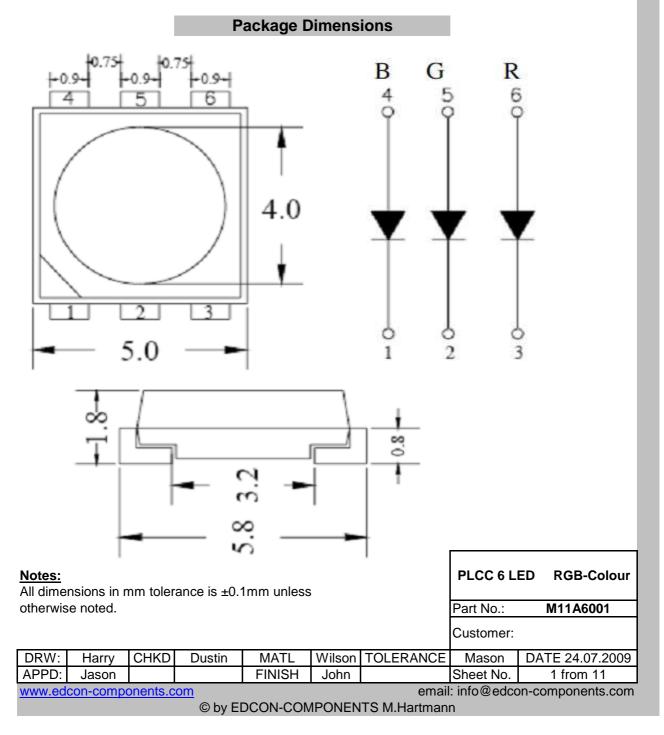


## **Applications**

- Interior automotive lighting(dashboard backlight etc...)
- Optical indicators
- Communication Products
- Backlighting
- Toys





## Absolute Maximum Ratings (Ta = 25°C)

Parameter	MAX.	Unit					
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	50	mA					
Continuous Forward Current	20	mA					
Reverse Voltage	5	V					
Operating Temperature Range	-25℃ to +85℃						
Storage Temperature Range	-40°C to + 100°C						
Lead Soldering Temperature	260°C for 3	Seconds					

\*Pulse width  $\leq 0.1$  msec duty  $\leq 1/10$ 

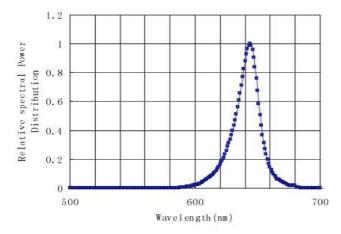
-	Typical	Electri	cal &	Optica	l Cha	ract	eris	stic	s(IF=	20	mA	and Ta	= 25°C)			
	Param	leter		Symbol	Mi	n.	Ту	p.	Max.	U	nit	Te	st Condition			
		$I_{v(Red)}$	40	0	60	0										
Luminous Intensity				I <sub>v(Green)</sub>	40	0	600			m	cd	I <sub>F</sub> =20mA (Note 8)				
			$I_{v(Blue)}$	10	0	20	0									
				$\lambda d_{(Red)}$	62	0			630							
	Wavele		$\lambda d_{(Green)}$	51	5		-	525	nm		I <sub>F</sub> = 20mA					
			$\lambda d_{(Blue)}$	46	5			475								
	Viewing		201/2	1/2		12	20		D	Deg I <sub>F</sub> = 20mA						
			$V_{F(Red)}$			2.	0	<mark>2.</mark> 8								
	Forward V	Voltage		$V_{F(Green)}$				2	<b>4.0</b>	\ \	V	$I_F = 20mA$				
				$V_{F(Blue)}$			3.	2	<b>4.0</b>							
	Reverse	Current		I <sub>R</sub>				-	50	μ	А		V <sub>R</sub> = 5V			
Notes:																
	ance of m								: ±15%		PL	CC 6 LEI	D RGB-Colou			
2. Tolerance of measurement of chromatic coordinates : ±0.02																
3. Tolerance of measurement of forward voltage : ±0.1V												No.:	M11A6001			
												tomer:				
DRW:	Harry	CHKD	Dus		Wils		ΤŌ	LERAN	CE			DATE 24.07.200				
APPD:	Jason			FI	NISH	Jo	hn					et No.	2 from 11			
www.ed	con-comp	onents.c	om						er	nail	: info	@edcon	-components.co			

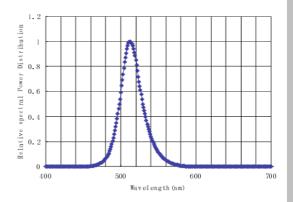
© by EDCON-COMPONENTS M.Hartmann

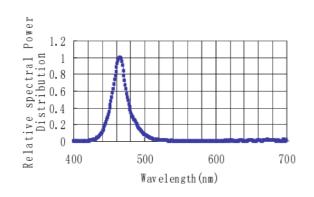






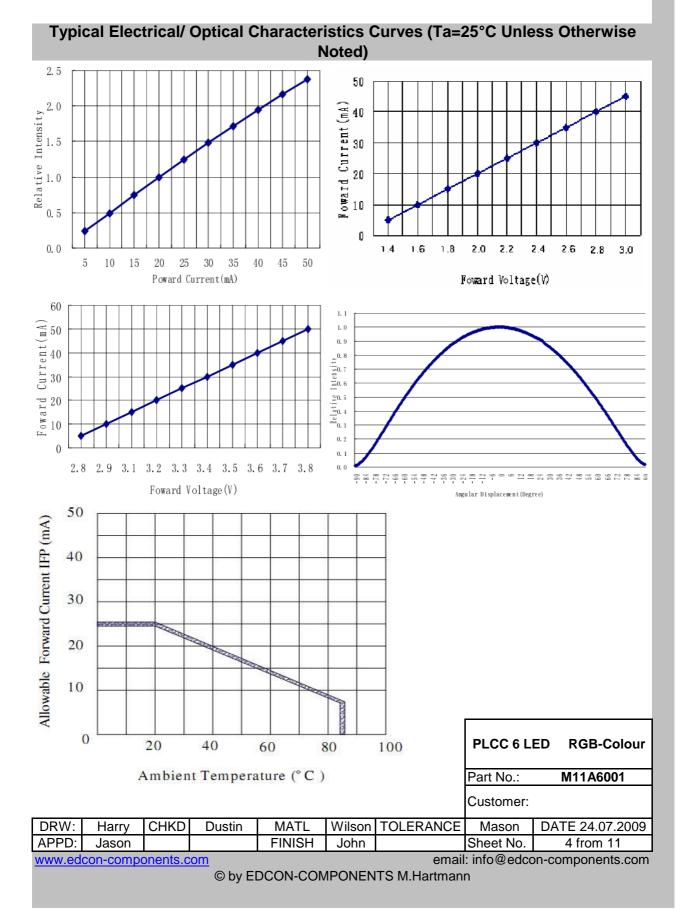






							PLCC 6 LI	ED RGB-Colour
							Part No.:	M11A6001
							Customer:	
DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
APPD:	Jason			FINISH	John		Sheet No.	3 from 11
www.ed	con-compo	onents.c	: info@edcc	on-components.com				
			© by El	DCON-COM	IPONEN	TS M.Hartman	n	

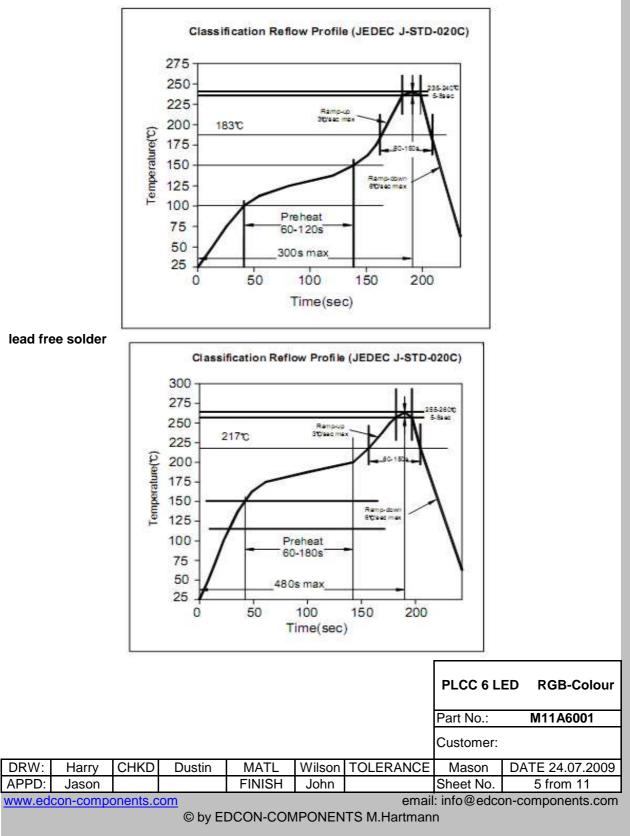






Solder Condition

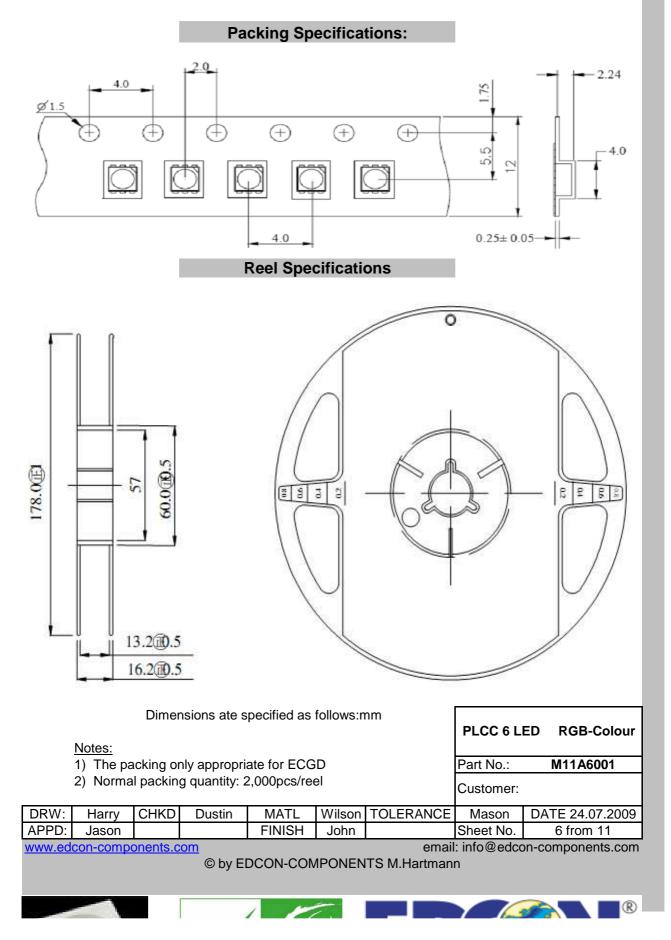












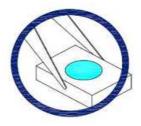




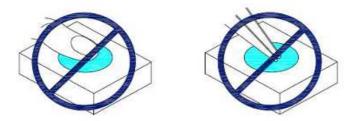
## **Handling Precautions**

Compare to epoxy encapsulant that is hard and brittle, silicone is softer and flexible. Although its characteristic significantly reduces thermal stress, it is more susceptible to damage by external mechanical force. As a result, special handling precautions need to be observed during assembly using silicone encapsulated LED products. Failure to comply might leads to damage and premature failure of the LED.

1. Handle the component along the side surfaces by using forceps or appropriate tools.



2. Do not directly touch or handle the silicone lens surface. It may damage the internal circuitry.



3. Do not stack together assembled PCBs containing exposed LEDs. Outside impact may scratch the silicone lens or damage the internal circuitry.



4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should

	e as large						PLCC 6 LI	ED RGB-Colour
							Part No.:	M11A6001
							Customer:	
DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009
APPD:	Jason			FINISH	John		Sheet No.	7 from 11
www.edd	con-comp	onents.c	om			email	: info@edco	n-components.com

© by EDCON-COMPONENTS M.Hartmann

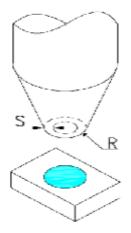






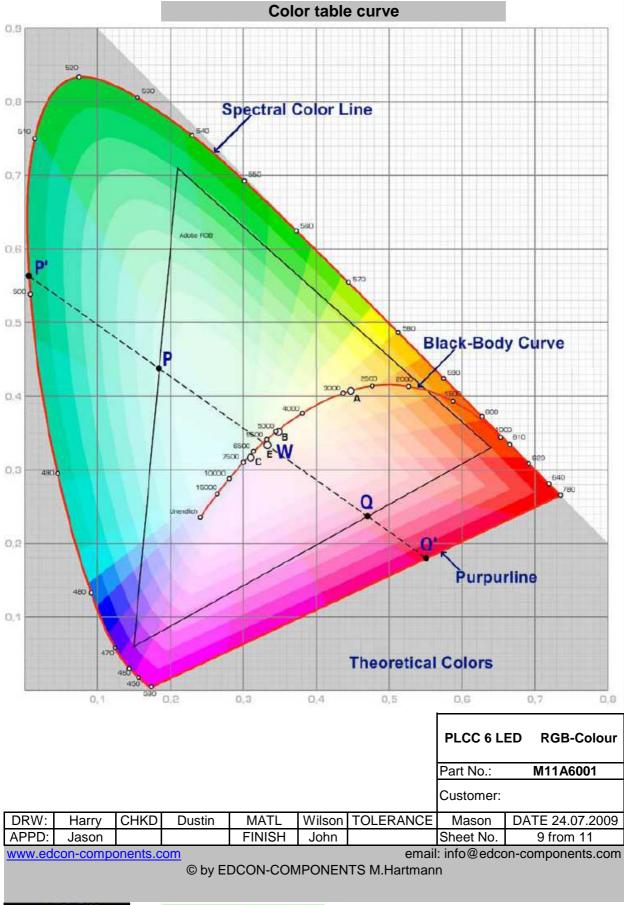
5. A pliable material is suggested for the nozzle tip to avoid scratching or damaging the LED surface during pickup.

6. The dimensions of the component must be accurately programmed in the pick-and-place machine to insure precise pickup and avoid damage during production.



							PLCC 6 LED RGB-Colou							
							Part No.: M11A6001							
				Customer:										
DRW:	Harry	CHKD	Dustin	MATL	Wilson	TOLERANCE	Mason	DATE 24.07.2009						
APPD:	Jason			FINISH		Sheet No.	8 from 11							
www.ed	<u>con-comp</u>	onents.c		DCON-COM	IPONEN	email TS M.Hartman		on-components.com						
C R				Æ	1									













		(	Ch	ro	ma	atio	city	y C	00	ord	lin	ate	es	Spec	cifi	ca	tio	ns	a	nd	B	N	Gr	ad	lin	g				
		0.2945	0.28875	0.3009	0.29875	0.287	0.2925	0.2934	0.3025	0.3073	0.30875	0.3137	0.31875		0.2539	0.25625	0.2603	0.26625	0.2667	0.27625	0.2731	0.28625	0.2795	0.29625	0.2859	0.30625	0.2923	0.31625	0.2987	0.32625
	ЧК	0.3009	0.29875	0.3073	27305.0	0.2934	0.3025	0.2998	0.3125	0.3137	0.31875	0.3201	0.32875	ЧК	0.2603	0.26625	0.2667	0.27625	0.2731	0.28625	0.2795	0.29625	0.2859	0.30625	0.2923	0.31625	0.2987	0.32625	1505.0	0.33625
	RANK	0.2934	0.3025	0.2998	0.3125	0.2859	0.30625	0.2923	0.31625	0.3062	0.3225	0.3126	0.3325	RANK	0.2474	0.272	0.2539	0.282	0.2602	0.292	0.2666	0.302	0.273	0.312	0.2794	0.322	0.2858	0.332	0.2922	0.342
		0.287	0.2925	0.2934	0.3025	0.2795	0.29625	0.2859	0.30625	0.2998	0.3125	0.3062	0.3225		0.241	0.262	0.2474	0.272	0.2539	0.282	0.2602	0.292	0.2666	0.302	0.273	0.312	0.2794	0.322	0.2858	0.332
		Х	Υ	Х	Υ	Х	Υ	Х	Υ	Х	Υ	Х	Υ		Х	Υ	Х	Υ	Х	Υ	Х	Y	Х	Υ	Υ	х	Υ	Υ	Х	×
	BIN	Ē	-		70		ñ.	ř	5		ä		99 9	NIB	Ê	9		Ę	ă	-		-		71	: -			<u>t</u>	1	1
nits		0.2614	0.2525	0.2678	0.2625	0.2817	0.26875	0.2881	0.27875	0.2742	0.2725	0.2806	0.2825		0.301	0.2725	0.3074	0.2825	0.3138	0.2925	0.3202	0.3025	0.3266	0.3125	0.2411	0.23625	0.2475	0.24625		
Lin	K	0.2678	0.2625	0.2742	0.2725	0.2881	0.27875	0.2945	0.28875	0.2806	0.2825	0.287	0.2925	К	0.3074	0.2825	0.3138	0.2925	0.3202	0.3025	0.3266	0.3125	0.333	0.3225	0.2475	0.24625	0.2539	0.25625		
Bin	RANK	0.2603	0.26625	0.2667	0.27625	0.2806	0.2825	0.287	0.2925	0.2731	0.28625	0.2795	0.29625	RANK	0.2945	0.28875	0.3009	0.29875	0.3073	0.30875	0.3137	0.31875	0.3201	0.32875	0.2346	0.252	0.241	0.262		
<b>Color Bin Limits</b>		0.2539	0.25625	0.2603	0.26625	0.2742	0.2725	0.2806	0.2825	0.2667	0.27625	0.2731	0.28625		0.2881	0.27875	0.2945	0.28875	0.3009	0.29875	0.3073	0.30875	0.3137	0.31875	0.2282	0.242	0.2346	0.252		
ы С		х	Υ	х	Υ	х	ч	×	2	×	Þ	Х	γ		х	Υ	Ж	×	×	×	×	Þ	х	Υ	н	Υ	х	Y		
<u> </u>	BIN	Ę	â	Ē	t A	ξ	5		8		ε		5	BIN	Ę	5	Ş	5	З	3	3	5	~	9	5	đ	Ē	74		
	K	0.2561	0.22875	0.2625	0.23875	0.248	0.233	0.255	0.2425	0.2689	0.24875	0.2753	0.25875	NK	0.2998	0.3125	0.3062	0.3225	0.269	0.223	0.2754	0.2325	0.2818	0.2425	0.2882	0.2525	0.2946	0.2625		
		0.2625	0.23875	0.2689	0.24875	0.255	0.2425	0.2614	0.2525	0.2753	0.25875	0.2817	0.26875		0.3062	0.3225	0.3126	0.3325	0.2754	0.2325	0.2818	0.2425	0.2882	0.2525	0.2946	0.2625	0.301	0.2725		
	RANK	0.255	0.2425	0.2614	0.2525	0.2475	0.24625	0.2539	0.25625	0.2678	0.2625	0.2742	0.2725	RAN	0.2987	0.32625	0.3051	0.33625	0.2625	0.23875	0.2689	0.24875	0.2753	0.25875	0.2817	0.26875	0.2881	0.27875		
		0.248	0.233	0.255	0.2425	0.2411	0.23625	0.2475	0.24625	0.2614	0.2525	0.2678	0.2625		0.2923	0.31625	0.2987	0.32625	0.2561	0.22875	0.2625	0.23875	0.2689	0.24875	0.2753	0.25875	0.2817	0.26875		
		Х	Y	Х	Y	Х	Y	х	Y	Х	γ	Ж	Y		Х	Y	Х	Y	×	Я	Х	ч	Х	Y	Х	Y	Х	Y		
	BI	Å	-	Å	5	А	m	A	4	е	-	е	7	BI	ш	~	ы	4	þ	5	ĥ	77	6	2	Γ <u>α</u>	5	90 DC	5		
																									D				Colo	our
																						rt N sto				M	11/	460	101	
DRW	: н	arr	V	CI	HK	DI	D	ust	in	Т	M		L	Wils	on	тс	) L F	R/		ΣF		Mas			DA		24	1.07	7.20	)09
APPD	): Ja	aso	n							t	FIN			Joh							Sh	eet	No	).		10	) fro	om	11	
<u>www.e</u>	edcon-	•cor	npo	one	ents	6.CO		©Ł	by E	EDC	100	N-C	SON	ЛРОN	IEN	тs	M.	На				fo@	ec	lco	n-c	om	por	nen	ts.c	com
	© by EDCON-COMPONENTS M.Hartmann														6															

