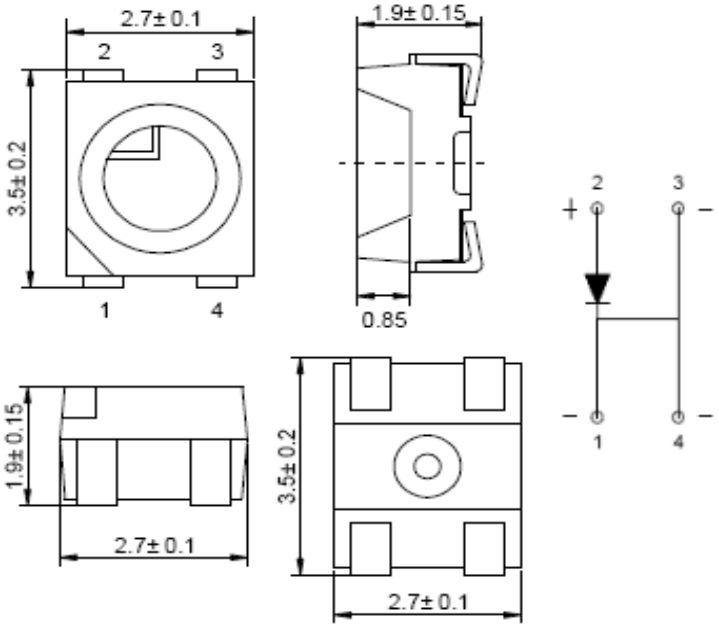
EDCON COMPONENTS
A MEMBER OF EDCON-GROUP

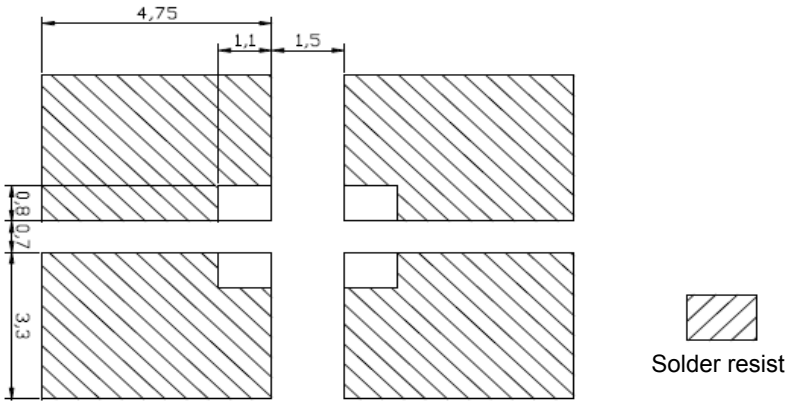
Applications

- Interior automotive lighting
- Optical indicators
- Communication Products
- Backlighting
- Toys

Technical Drawing



Recommended Soldering Pattern



Notes :

All dimensions in mm tolerance is
± 0.1mm unless otherwise noted.

PLCC4 ***Blue***							
Part No.:	**M11A2001**						
Customer:							
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009
APPD:	Ping			FINISH	Hui	Sheet	1 from 9

Absolute Maximum Ratings

Ta=25°C

Item	*Symbol*	*---*	*Unit*
Power Dissipation	P_D	140	mW
DC Forward Current	I_F	30	mA
Plused Forward Current	I_{FP}*	100	mA
Reverse Voltage	V_R	---	V
Operating Temperature	T_{OP}	-40 to 95	°C
Storage Temperature	T_{ST}	-40 to 100	°C

* 0.1 msec pulse, 10% duty cycle

Electrcal / Optical Characteristics

I_F=30mA Ta=25°C

Ermitting Color	Blue		
Material	---		
Forward Voltage	typ.	2.8	V_F
	max.	3.2	V_F
Wavelength typ.	λD	465	nm
	λP	470	nm
	Δλ	---	nm
Color Temperature	min.	---	K
	max.	---	K
Luminous Intensity *	min.	360	mcd
	typ.	500	mcd
Reverse Current	max.	50	μA
Viewing Angle	2Θ1/2	120	

* Per NIST standards

Ranks Combination

I_F=30mA

Rank	*Q1*	*Q2*	*R1*	
Luminous Intensity	360~450	450~563	563~703	mcd

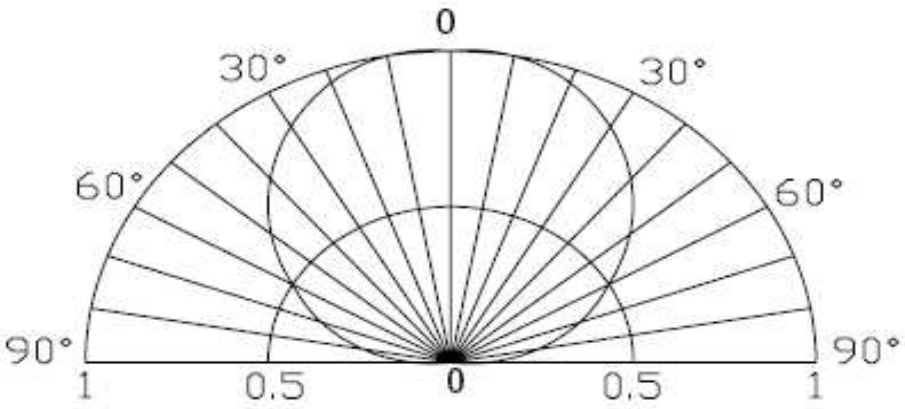
PLCC4
Blue

Part No.: **M11A2001**

Customer:

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009
APPD:	Ping			FINISH	Hui	Sheet	2 from 9

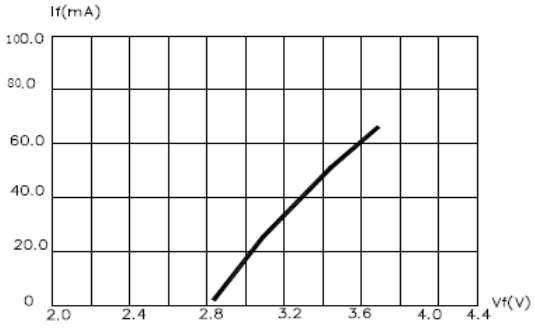
Directive Characteristics



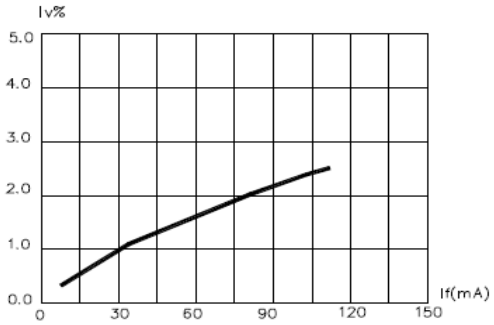
PLCC4 ***Blue***	
Part No.:	**M11A2001**
Customer:	

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009
APPD:	Ping			FINISH	Hui	Sheet	3 from 9

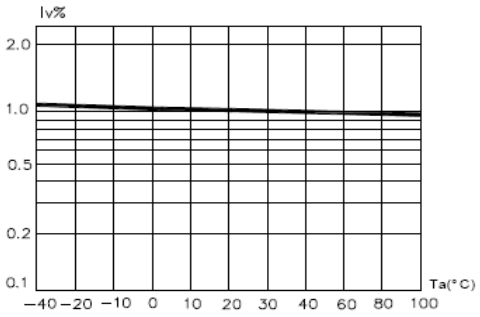
Curvs



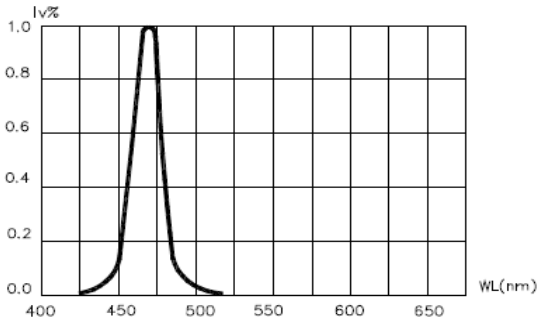
Forward Current vs. Forward Voltage



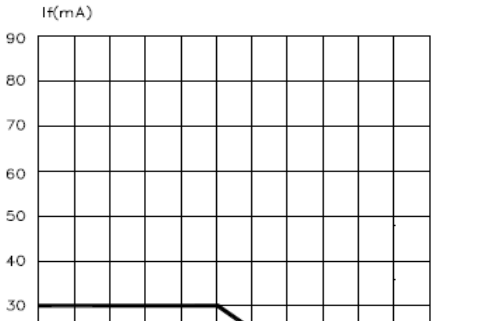
Relative Luminous Intensity vs. Forward Current



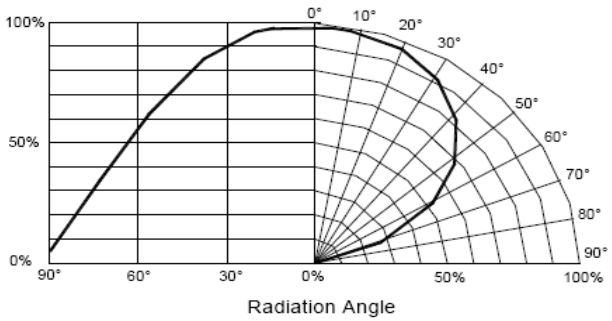
Relative Luminous Intensity vs. Ambient Temperature



Relative Luminous Intensity vs. Wavelength



Maximum Forward Current vs.Ambient Temperature



Radiation Angle

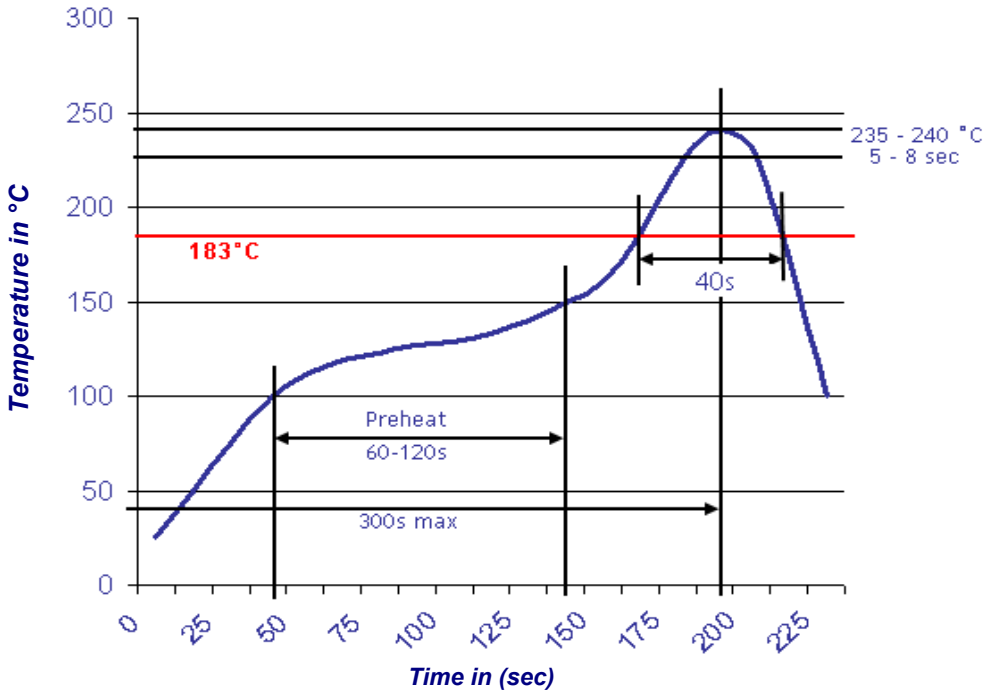
PLCC4	
Blue	
Part No.:	**M11A2001**
Customer:	

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009
APPD:	Ping			FINISH	Hui	Sheet	4 from 9

Solder Condition

Lead Free Solder

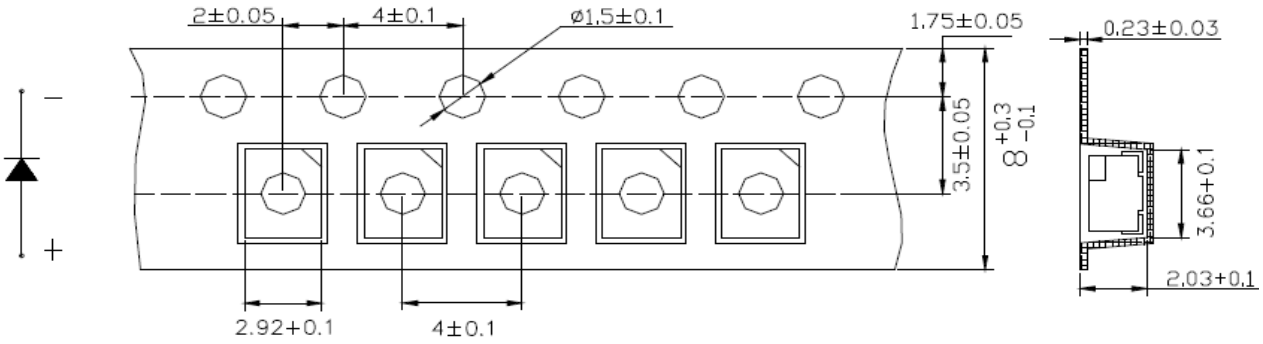
Classification Reflow Profile (JEDEC J-STD-020C)



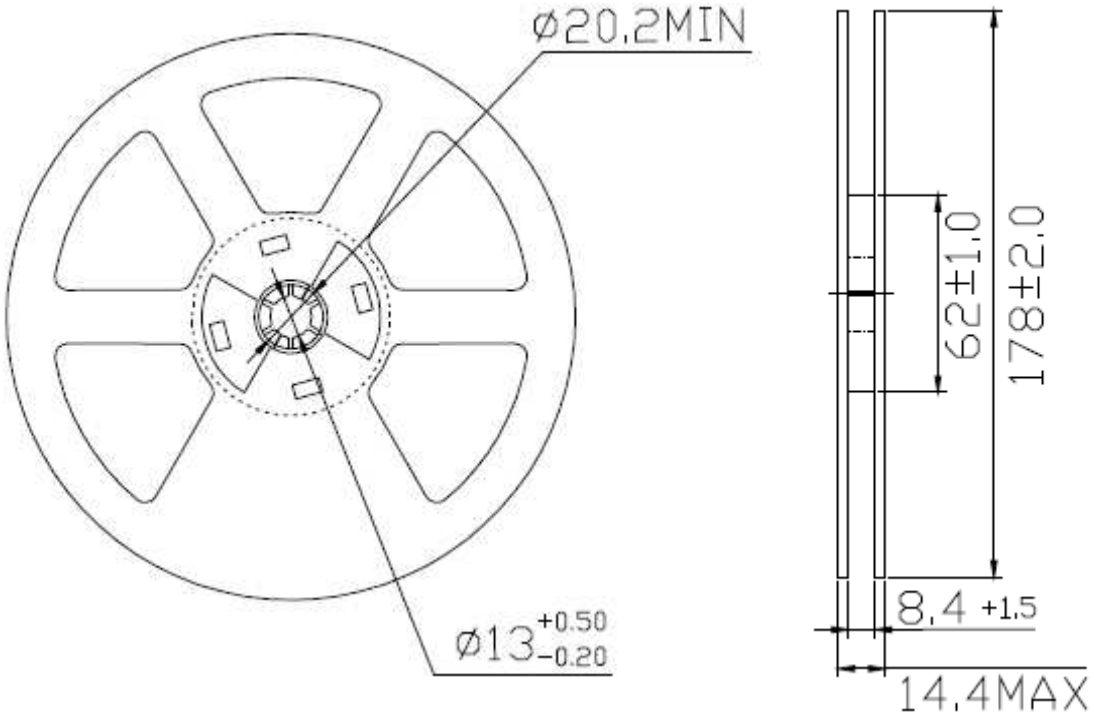
PLCC4 ***Blue***	
Part No.:	**M11A2001**
Customer:	

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009
APPD:	Ping			FINISH	Hui	Sheet	5 from 9

Packing Specifications



Reel Specifications



PLCC4	
Blue	
Part No.:	**M11A2001**
Customer:	

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009
APPD:	Ping			FINISH	Hui	Sheet	6 from 9

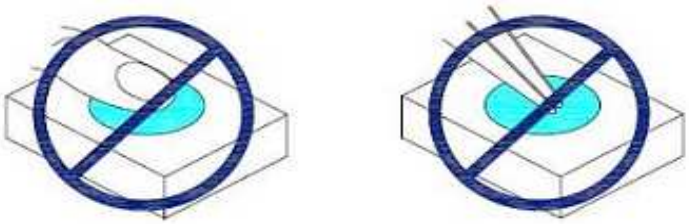
EDCON COMPONENTS
A MEMBER OF EDCON-GROUP

Handling Precautions

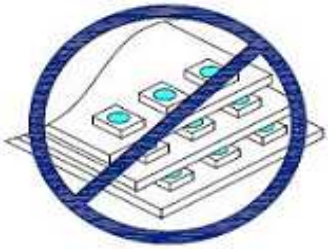
Compare to epoxy encapsulant that is hard and brittle, silicone is softer and flexible. Although ist characteristic significantly reduces thermal stress, it is more susceptible to damage by external mechanical force. As a result, special handling precautions need to be observed during assembly using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



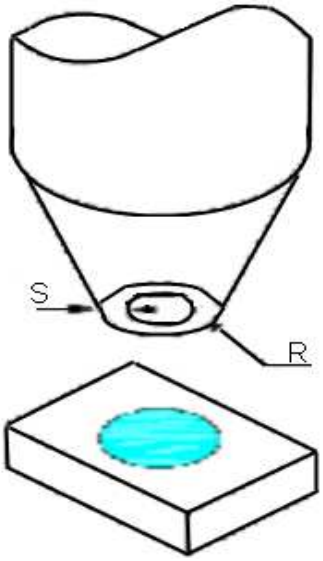
PLCC4	
Blue	
Part No.:	**M11A2001**
Customer:	

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009
APPD:	Ping			FINISH	Hui	Sheet	7 from 9

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 be as large as possible.

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

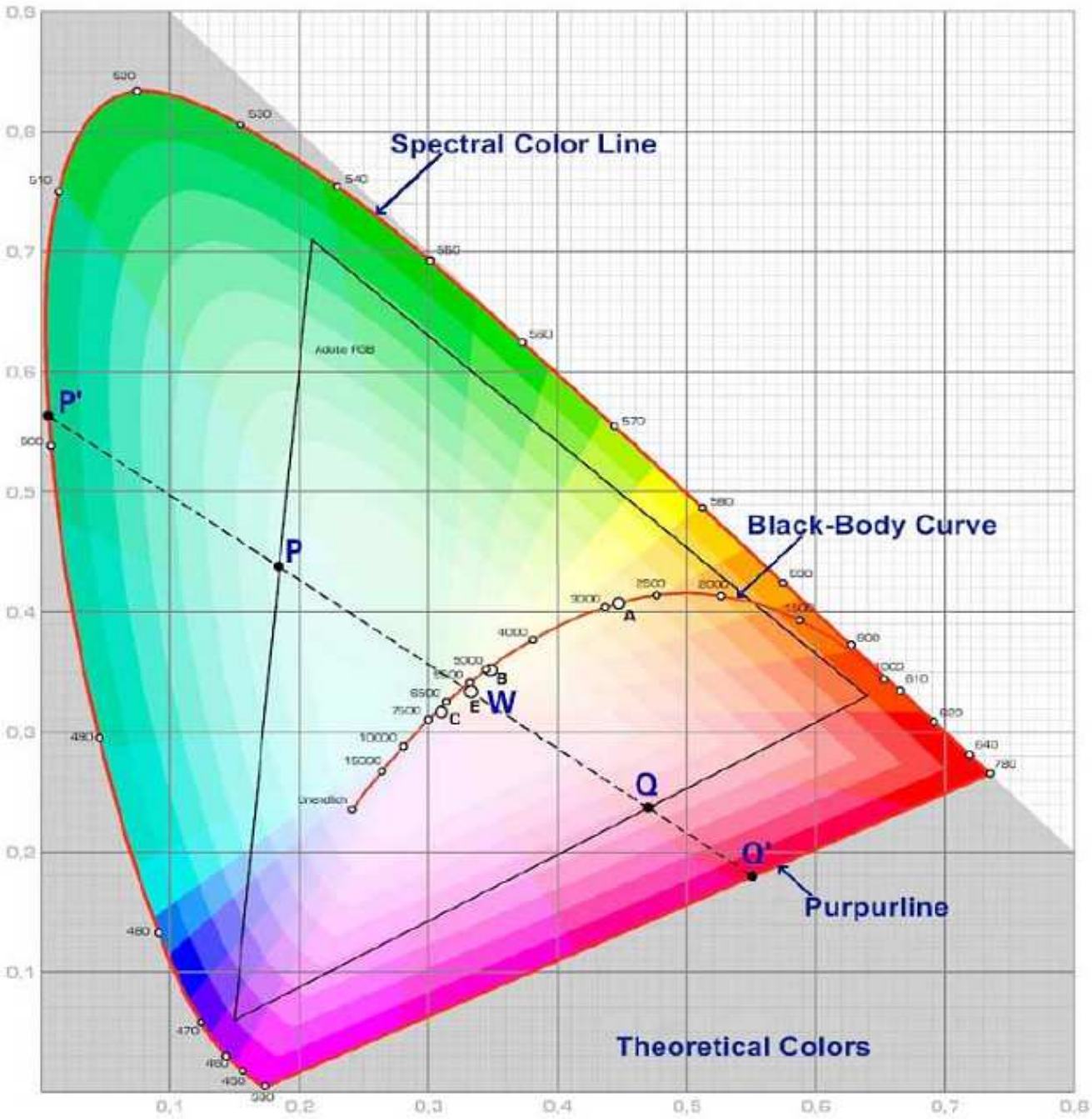
6. The dimensions of the component must be accurately programmed in the pick-and-place machine to insure precise pickup and avoid damage during production.



					PLCC4 ***Blue***		
					Part No.:	**M11A2001**	
					Customer:		
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009
APPD:	Ping			FINISH	Hui	Sheet	8 from 9

EDCON COMPONENTS
A MEMBER OF EDCON-GROUP

Color table curve



PLCC4	
Blue	
Part No.:	**M11A2001**
Customer:	

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009
APPD:	Ping			FINISH	Hui	Sheet	9 from 9

www.edcon-components.com email: info@edcon-components.com