



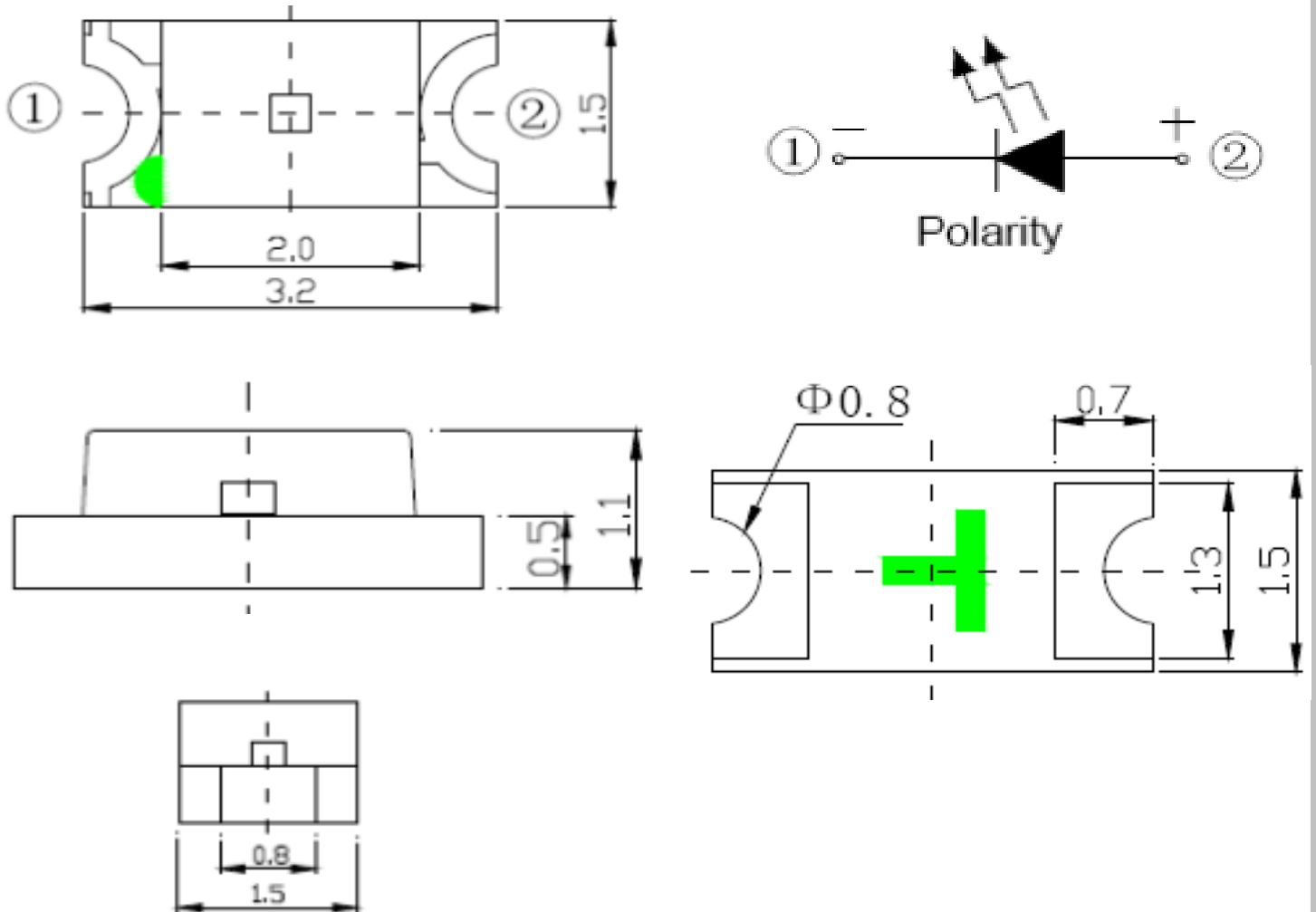
Applications

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

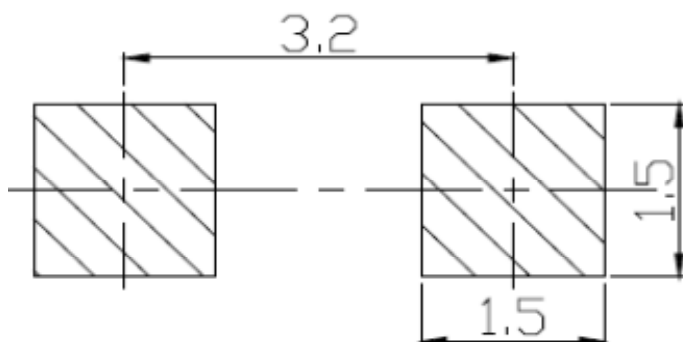
Features

- Package: (L/W/W) 3,2x1,5x1,1mm
- Colour: Ultra High Bright Yellow-Green
- Lens: Water Clear Flat Mould
- Compatible with SMT Automatic Equipment
- Compatible with Infrared Reflow Solder Process

Technical Drawing



Recommended Soldering Pattern



Notes :

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

SMT Top View LED Green			
Part No.:		M11G1014	
Customer:			

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	01.12.2017
APPD:	Ping			FINISH	Hui	Sheet	1 from 8



Absolute Maximum Ratings

Item	Symbol	AlGaInP	Unit
Power Dissipation	P_D	---	mW
DC Forward Current	I_F	---	mA
Pulsed Forward Current	I_{FP}^*	---	mA
Reverse Voltage	V_R	---	V
Operating Temperature	T_{OP}	---	°C
Storage Temperature	T_{ST}	---	°C

* 0.1 msec pulse, 10% duty cycle

Electrical / Optical Characteristics

$I_F=20mA$

Emitting Color	Green		
Material	AlGaInP		
Forward Voltage	typ.	1,8	V_F
	max.	2.4	V_F
Wavelength typ.	λ_D	565 ~576	nm
	λ_P	576	nm
	$\Delta\lambda$	---	nm
Color Temperature	min.	---	K
	max.	---	K
Luminous Intensity *	min.	---	mcd
	typ.	56	mcd
Reverse Current	max.	---	μA
Viewing Angle	$2\theta_{1/2}$	120	

* Per NIST standards

SMT Top View LED
Green

Part No.: **M11G1014**

Customer:

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	01.12.2017
APPD:	Ping			FINISH	Hui	Sheet	2 from 8



Curves

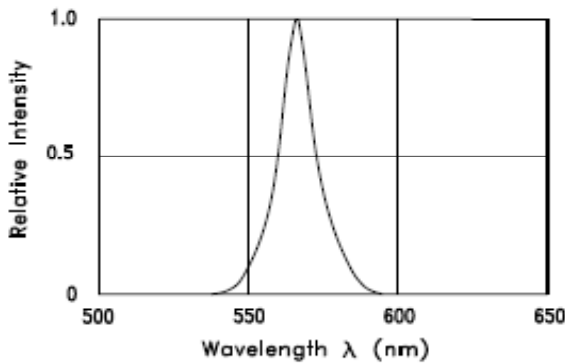


Fig.1 RELATIVE INTENSITY VS. WAVELENGTH

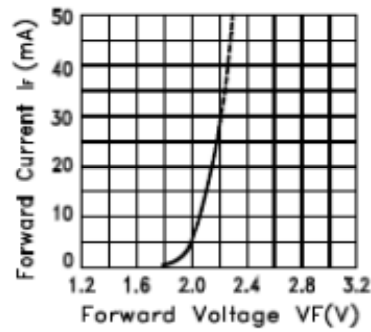


Fig.2 FORWARD CURRENT VS. FORWARD VOLTAGE

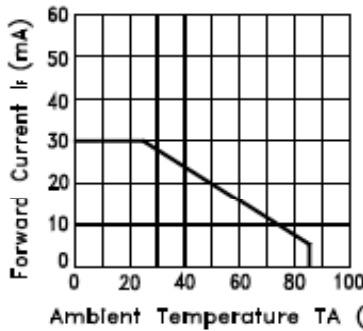


Fig.3 FORWARD CURRENT DERATING CURVE

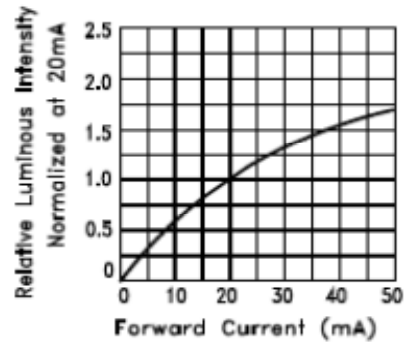


Fig.4 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

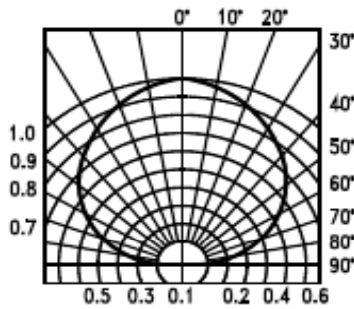


Fig.6 SPATIAL DISTRIBUTION

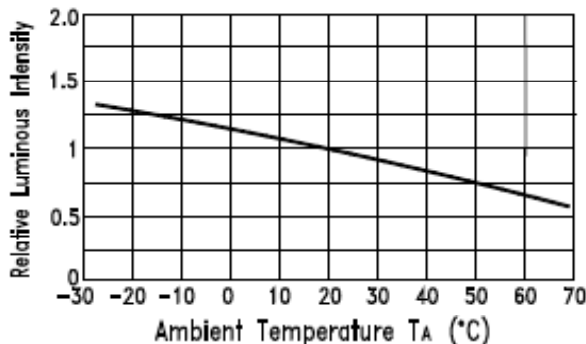


Fig.5 Luminous Intensity vs. Ambient Temperature

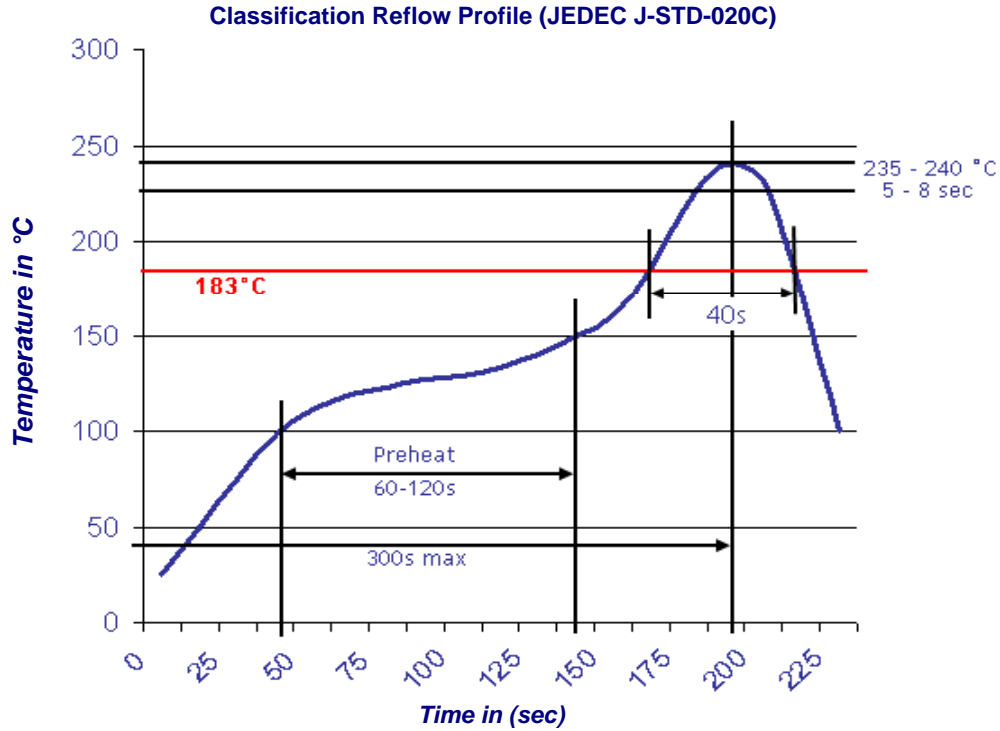
SMT Top View LED Green	
Part No.:	M11G1014
Customer:	

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	01.12.2017
APPD:	Ping			FINISH	Hui	Sheet	3 from 8



Solder Condition

Lead Free Solder

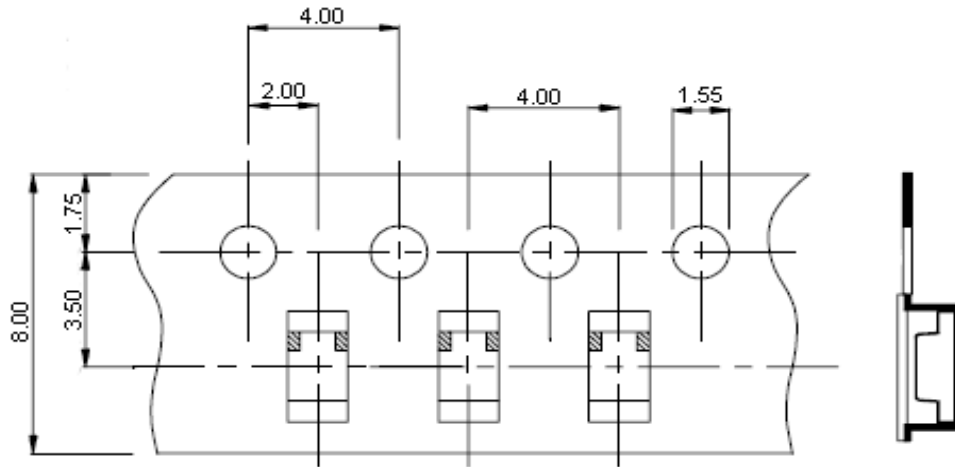


SMT Top View LED Green	
Part No.:	M11G1014
Customer:	

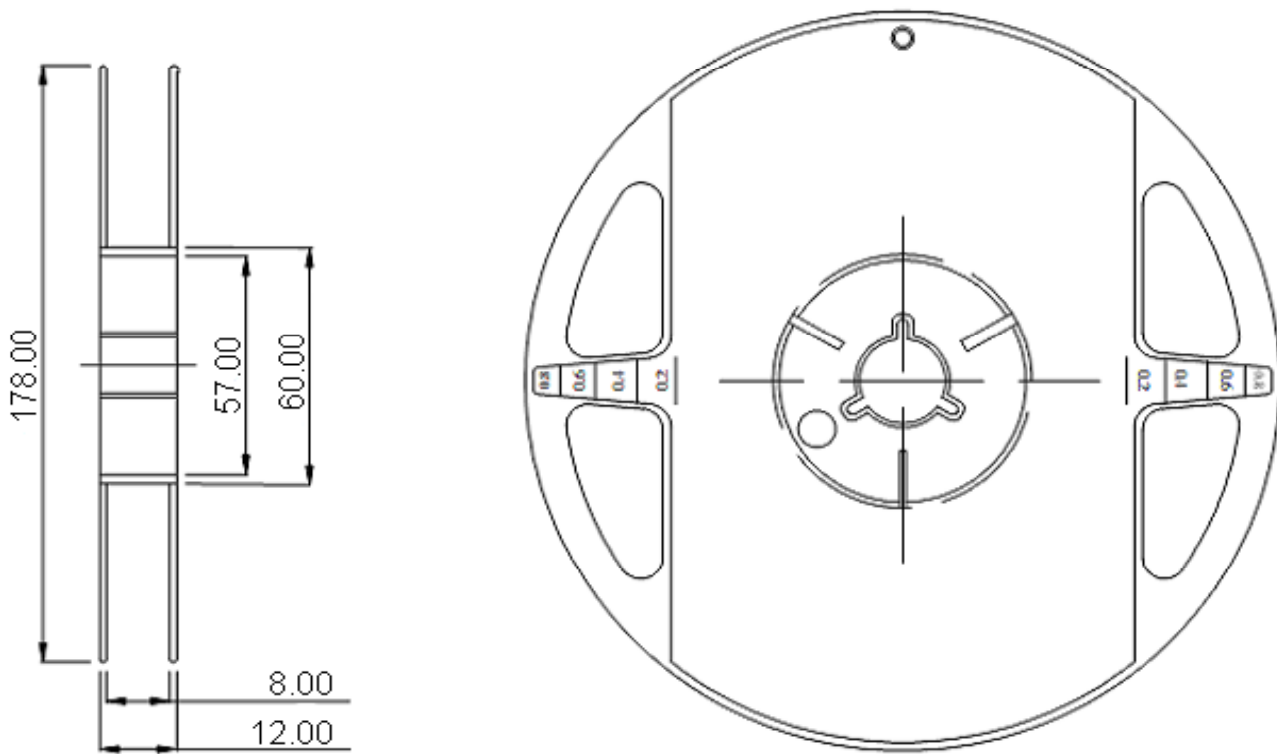
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	01.12.2017
APPD:	Ping			FINISH	Hui	Sheet	4 from 8



Packing Specifications



Reel Specifications



SMT Top View LED Green	
Part No.:	M11G1014
Customer:	

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	01.12.2017
APPD:	Ping			FINISH	Hui	Sheet	5 from 8



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 lead 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.

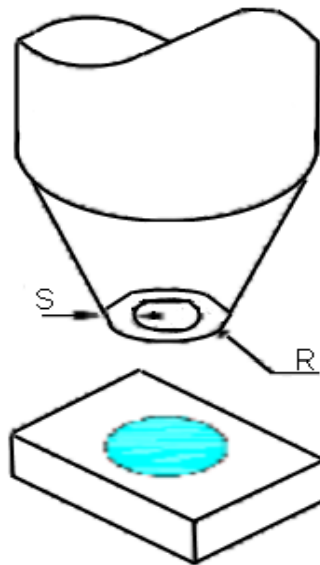


SMT Top View LED Green	
Part No.:	M11G1014
Customer:	

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	01.12.2017
APPD:	Ping			FINISH	Hui	Sheet	6 from 8



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.

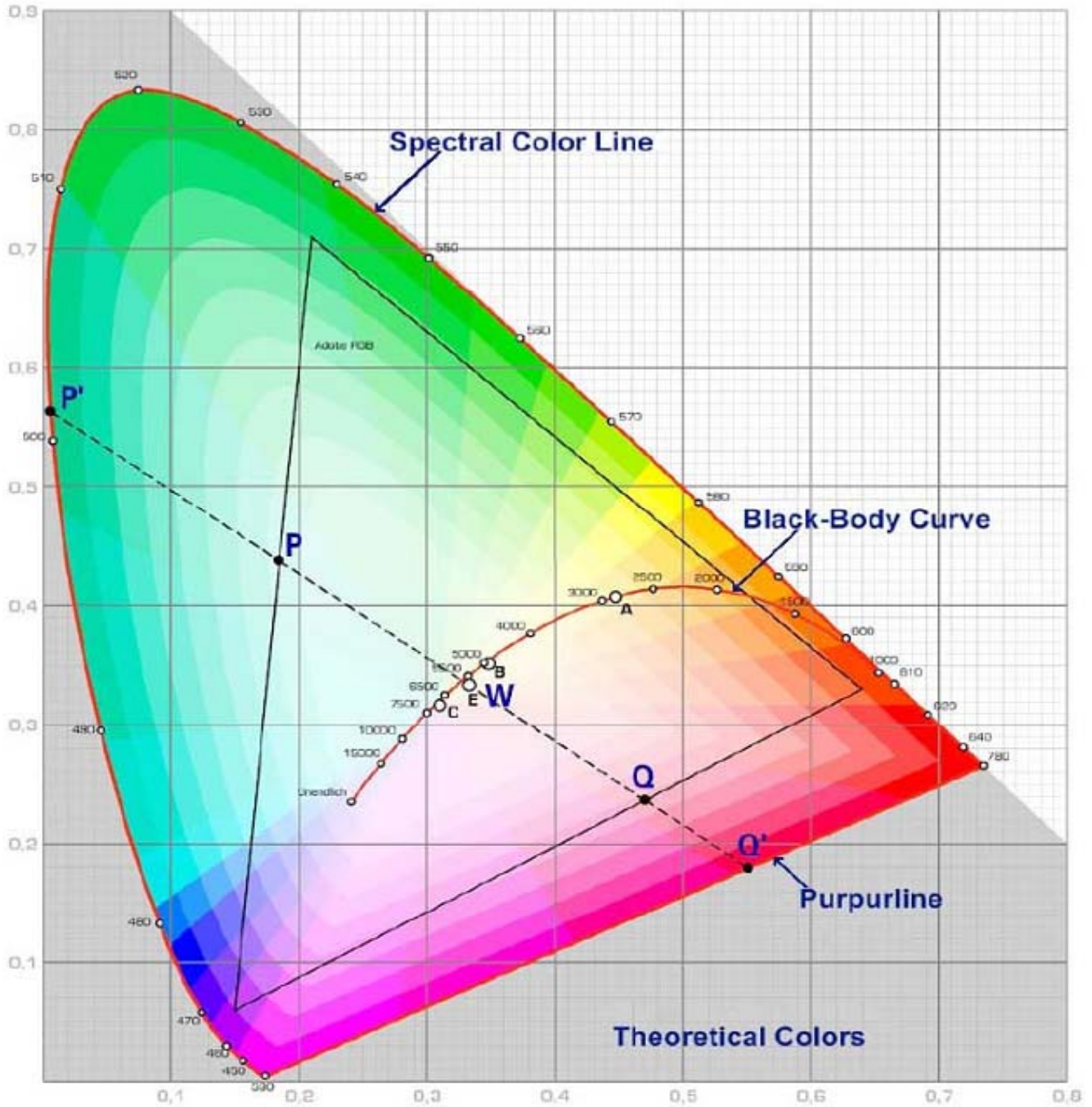


SMT Top View LED Green	
Part No.:	M11G1014
Customer:	

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	01.12.2017
APPD:	Ping			FINISH	Hui	Sheet	7 from 8



Color table curve



SMT Top View LED Green	
Part No.:	M11G1014
Customer:	

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	01.12.2017
APPD:	Ping			FINISH	Hui	Sheet	8 from 8