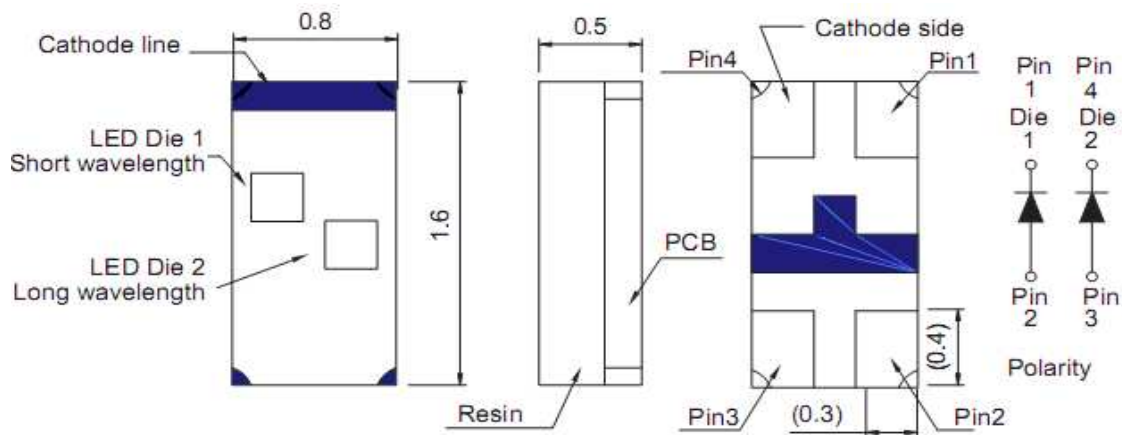




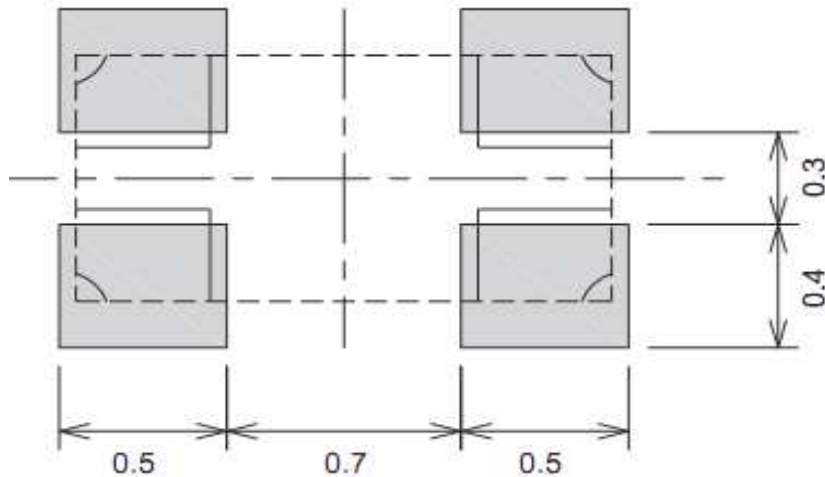
Applications

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

Technical Drawing



Recommended Soldering Pattern



Notes :

All dimensions in mm tolerance is
 $\pm 0.1\text{mm}$ unless otherwise noted.

SMT Top View LED	
Orange	Green
Part No.:	M11D7005
Customer:	

DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009
APPD:	Ping			FINISH	Dia	Sheet	1 from 9



Absolute Maximum Ratings

Ta=25°C

Item	Symbol	AllnGaP	InGaN	Unit
Power Dissipation	P _D	72	78	mW
DC Forward Current	I _F	30	20	mA
Plused Forward Current	I _{FP} *	100	80	mA
Reverse Voltage	V _R	5		V
Operating Temperature	T _{OP}	-30 to 80		°C
Storage Temperature	T _{ST}	-40 to 85		°C

* 0.1 msec pulse, 10% duty cycle

Electrcal / Optical Characteristics

I_F=20mA Ta=25°C

Ermitting Color Material	Orange		Green	
		AllnGaP		InGaN
Forward Voltage	typ.	1.9	3.3	V _F
	max.	2.4	3.9	V _F
Wavelength typ.	λ _D	622	527	nm
	λ _P	636	520	nm
	Δλ	17	40	nm
Color Temperature	min.	---	---	K
	max.	---	---	K
Luminous Intensity *	min.	50	90	mcd
	typ.	120	200	mcd
Reverse Current	max.	---		μA
Viewing Angle	2Θ1/2	140		

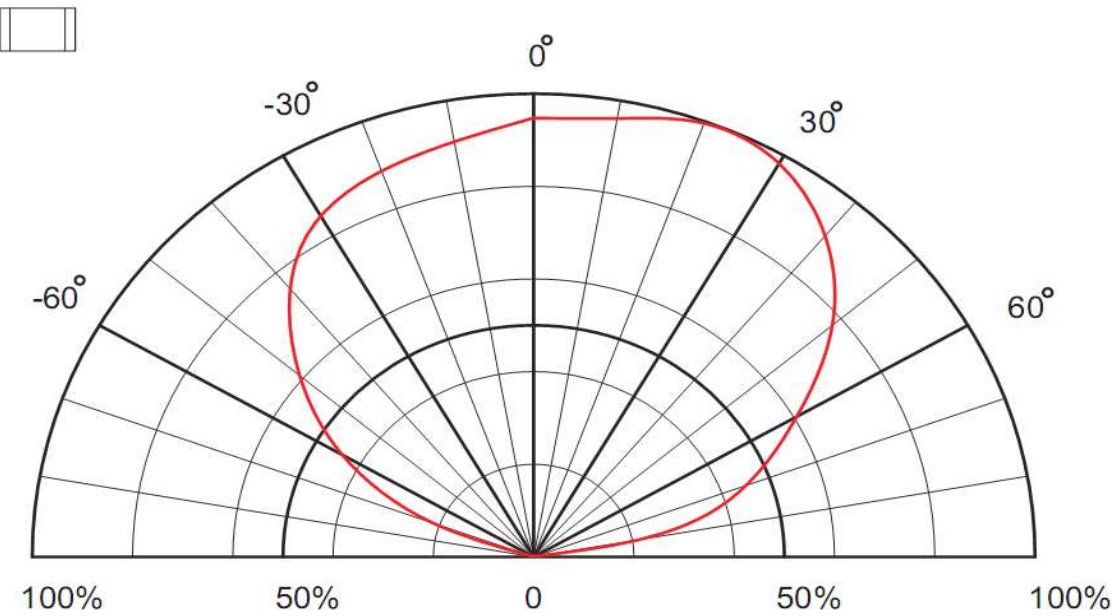
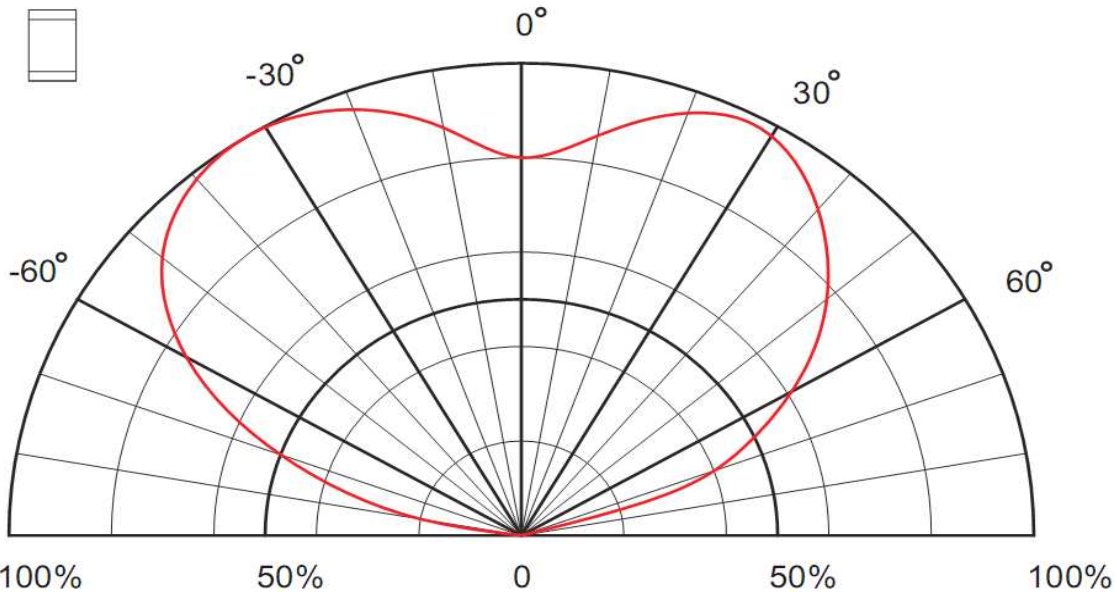
* Per NIST standards

SMT Top View LED	
Orange	Green
Part No.:	M11D7005
Customer:	

DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009
APPD:	Ping			FINISH	Dia	Sheet	2 from 9



Directive Characteristics



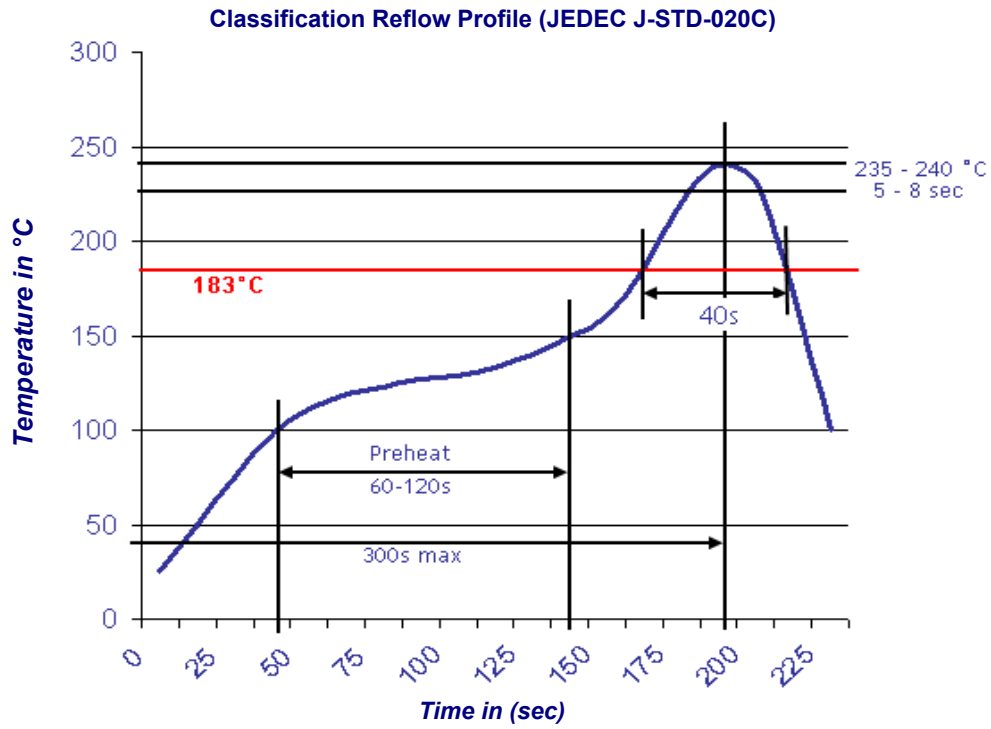
SMT Top View LED	
Orange	Green
Part No.:	M11D7005
Customer:	

DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009
APPD:	Ping			FINISH	Dia	Sheet	3 from 9



Solder Condition

Lead Free Solder

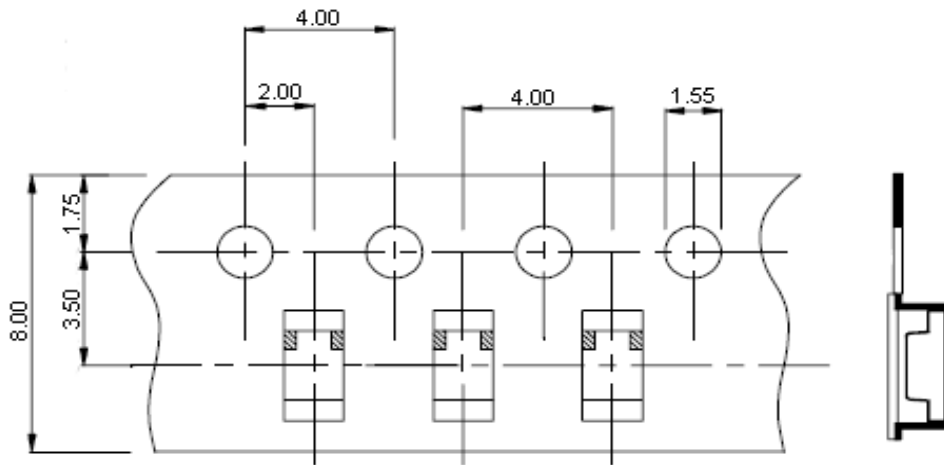


SMT Top View LED	
Orange	Green
Part No.:	M11D7005
Customer:	

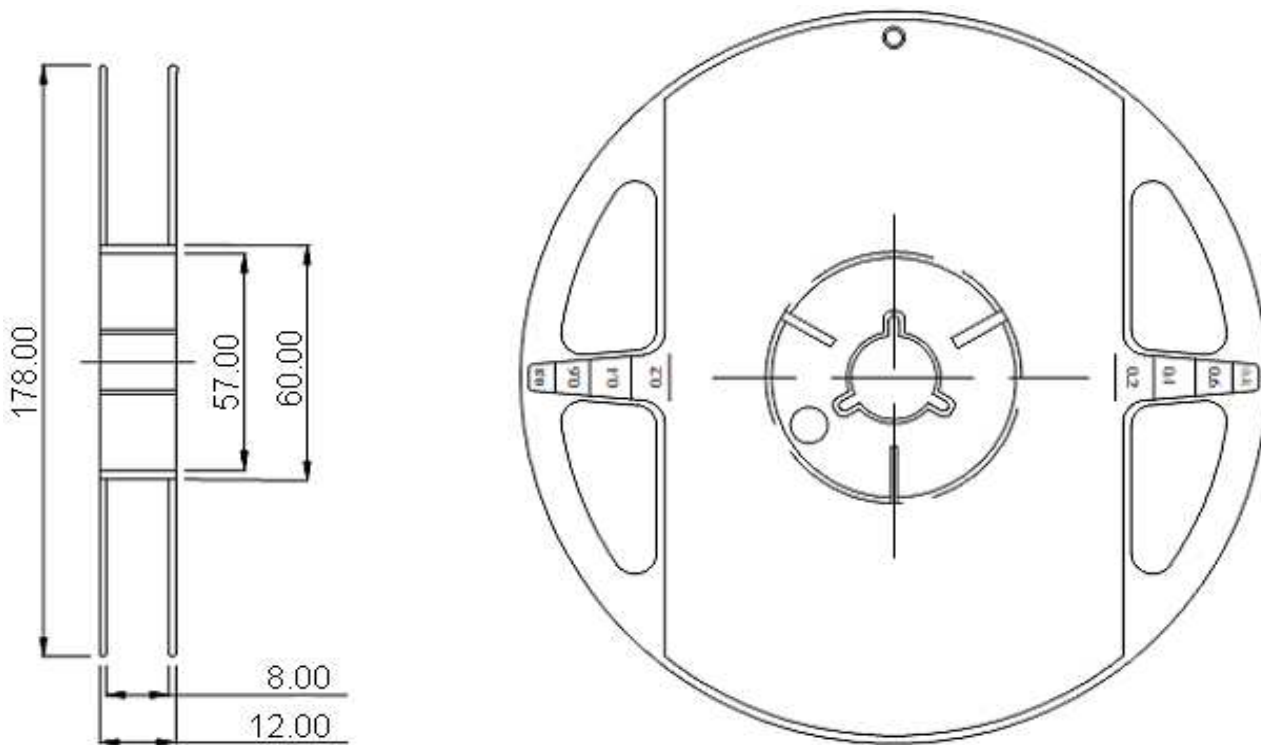
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009
APPD:	Ping			FINISH	Dia	Sheet	5 from 9



Packing Specifications



Reel Specifications



SMT Top View LED
Orange Green

Part No.: **M11D7005**

Customer:

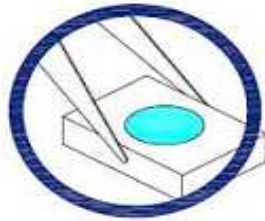
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009
APPD:	Ping			FINISH	Dia	Sheet	6 from 9



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.

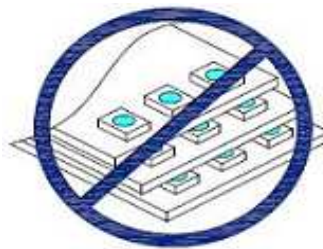
1. Handle the component along the side surfaces by using forceps or appropriate tools



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
Orange **Green**

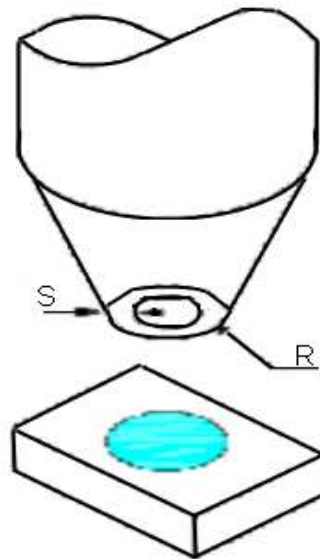
Part No.: **M11D7005**

Customer:

DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009
APPD:	Ping			FINISH	Dia	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.

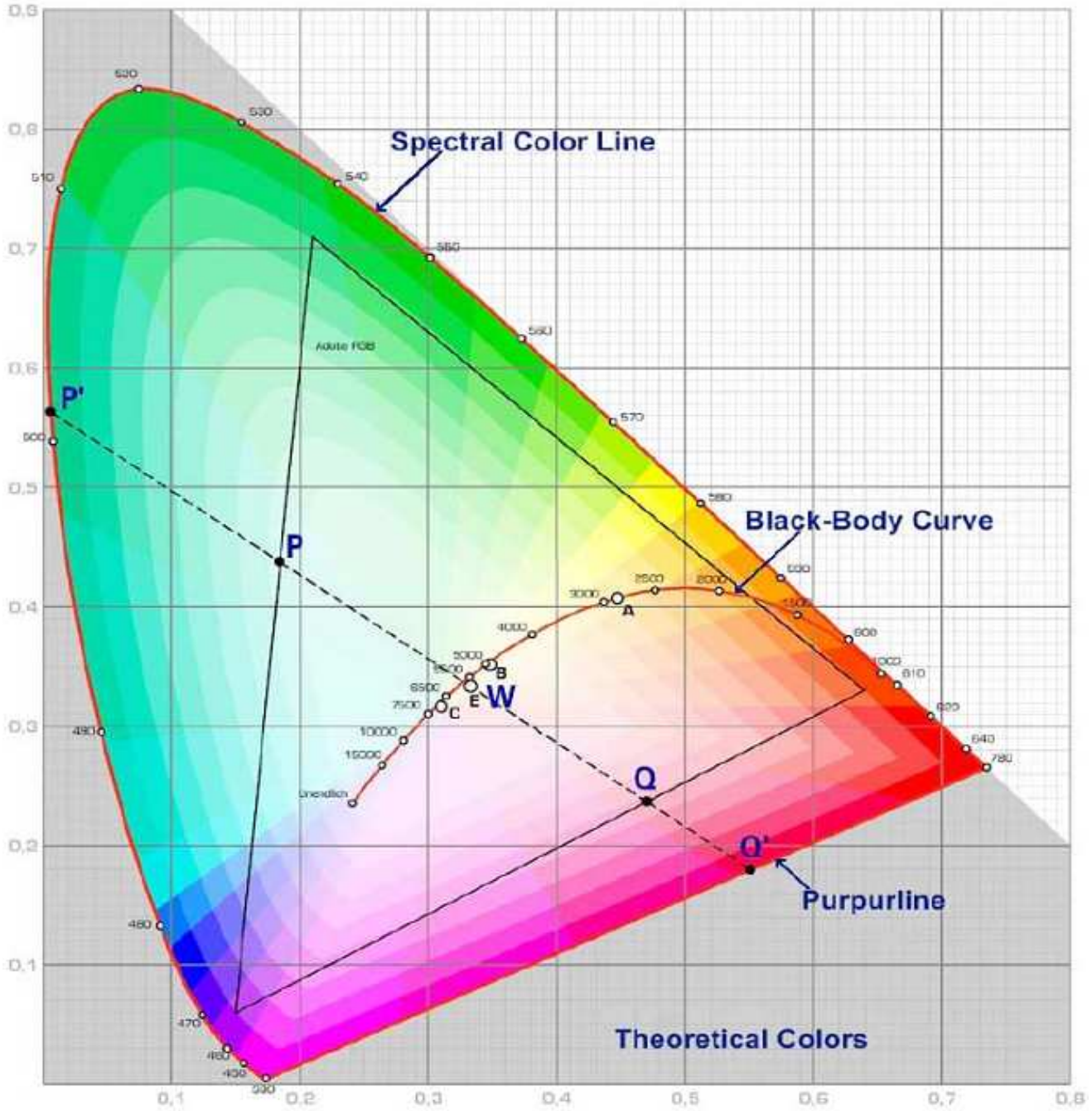


SMT Top View LED	
Orange	Green
Part No.:	M11D7005
Customer:	

DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009
APPD:	Ping			FINISH	Dia	Sheet	8 from 9



Color table curve



SMT Top View LED	
Orange	Green
Part No.:	M11D7005
Customer:	

DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009
APPD:	Ping			FINISH	Dia	Sheet	9 from 9