

# Light Conversion High Polymer Modules

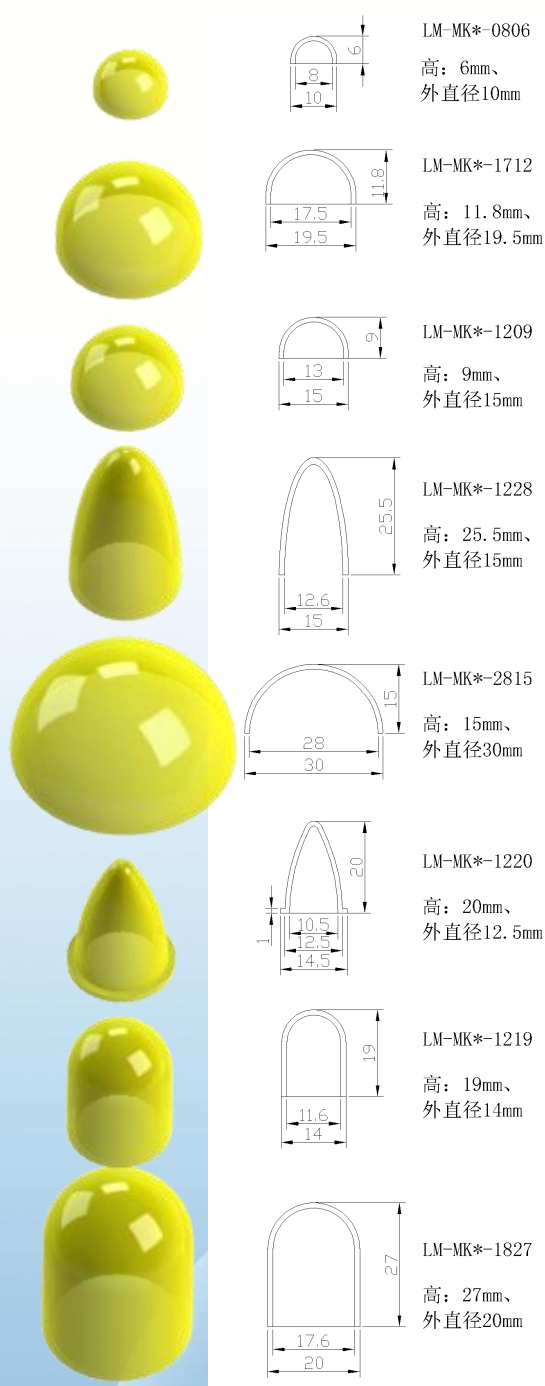


## Brief Introduction

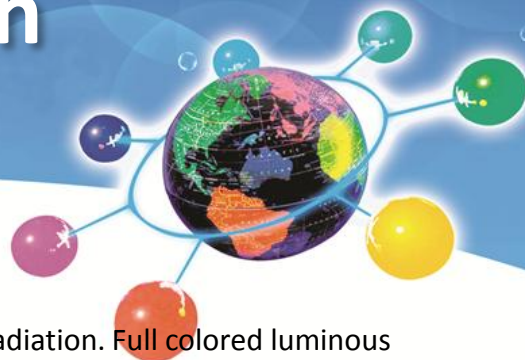
Light conversion high polymer modules is a product developed by Dalian LUMINGLIGHT CO., Ltd.. It's a kind of elastic arch shaped colorful module which has non-toxic, innocuity and no radioactive elements. It is high photo-transformed efficiency, stable in physics and chemical properties, balance glowing and long working life. It can transform the blue lights to white lights. The stability of silicone resins and phosphors can provide high lumen outputs and different emitting colors. It can be adopted the single one below 500nm or COB integration blue light as the excitation light source, in the meanwhile some products still can adopt the UV light as the excitation light. (As shown in the product technical index table)

## Product Data Sheet

Item No.	Appearance Color	Shape	CCT/K	RA	Excitation Light (nm)	Application
LM-MKW-1712-030	Orange-yellow	hemisphere	3000±100K	>80	450—470	6w-9w
LM-MKN-1712-060	Yellow	hemisphere	6000±500K	>75	450—470	6w-9w
LM-MKW-1712-020	Orange-Yellow	hemisphere	2700±80K	>80	450—470	6w-9w
LM-MKW-1209-030	Orange-Yellow	hemisphere	3000±100K	>80	450—470	3W—6W
LM-MKN-1209-060	Yellow	hemisphere	6000±500K	>75	450—470	3W—6W
LM-MKW-1209-020	Orange-Yellow	hemisphere	2700±80K	>80	450—470	3W—6W
LM-MKW-0806-060	Yellow	hemisphere	6000±500K	>75	450—470	1W—3W
LM-MKW-0806-020	Orange-Yellow	hemisphere	2700±80K	>80	450—470	1W—3W
LM-MKZ-1228-030	Orange	Candle	3000±100K	>80	450—470	1-5W
LM-MKZ-1228-020	Orange	Candle	2700±80K	>80	450—470	1-5W
LM-MKZ-1228-040	Yellow	Candle	2700±100K	>80	450—470	B+R
LM-MKZ-1220-060	Yellow	Candle	6000±300K	>75	450—470	1-5W
LM-MKZ-1220-020	Orange	Candle	2700±80K	>80	450—470	1-5W
LM-MKT-1827-020	Orange	Columnar	2700±80K	>80	450—470	6-9W
LM-MKT-1827-060	Yellow	Columnar	6000±300K	>75	450—470	6-9W
LM-MKT-1827-040	Yellow	Columnar	2700±100K	>80	450—470	B+R
LM-MKW-2815-020	Orange	hemisphere	2700±80K	>80	450—470	9-40W



# Light Conversion High Polymer Modules



## Design features

Special silicone resin module without heavy metals and radiation. Full colored luminous with highlight, uniformity.

The modules can be widely excited by blue chips or UV chips.

High stability can be easily cleaned.

With great mechanical and thermal stability can be used in  $-20\sim 150$  degree.

The modules have the stable performance in physical and chemical and it's good in the mechanical property.

Improved light distribution in use of diffused particles

Can be designed for different sizes according to its use.

## Application and Notice

1. The modules must be used with suitable shells and power supply.
2. Before used the modules must be cleaned with ethanol.
3. Choose the suitable modules which according to the different size of itself and the requirement of PCB shell.
4. Assembly processing temperature must not exceed  $325^{\circ}\text{C}$  ( $< 5$  seconds). Working temperature must not exceed  $200^{\circ}\text{C}$  ( $< 10$  minutes). It can be worked under the  $150^{\circ}\text{C}$  for a long term.
5. The modules are elastic units which can't be suppressed by heavies or other forces.

## Packaging

1. The modules are package-dependent.
2. The storage temperature should be characterized in a specific package to determine limitations ( $15\sim 30^{\circ}\text{C}$ ,  $40\sim 60\%$  RH).

