


# OPTOELECTRONICS

## LEDs, Surface Mount

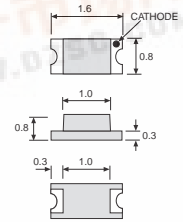


### CHIP - standard


A range of surface mount, chip LEDs with a white diffused lens, available in three industry standard sizes. Suitable for many applications including LCD/keypad backlighting, dot matrix displays and panel illumination. Supplied taped and reeled.

Case & Viewing Angle	Emitted Colour	Lens Colour	Peak Wavelength nm	Typ. Luminous Intensity (I <sub>F</sub> = 20mA) mcd	Manf. Part No. & Anglia Order Code
<b>0603 Chip</b>  Viewing angle 170°	<b>NORMAL BRIGHTNESS</b>				
	Red	white-diffused	660	17	<b>TOL1608MR</b> <b>TOL1608MO</b> <b>TOL1608MY</b> <b>TOL1608MG</b>
	Orange	white-diffused	610	6	
	Yellow	white-diffused	585	7	
	Green	white-diffused	568	10	
	<b>HIGH BRIGHTNESS</b>				
	Red	white-diffused	632	45	<b>TOL1608MRB</b> <b>TOL1608MOB</b> <b>TOL1608MYB</b> <b>TOL1608MGB</b>
	Orange	white-diffused	611	45	
	Yellow	white-diffused	593	45	
	Green	white-diffused	570	30	

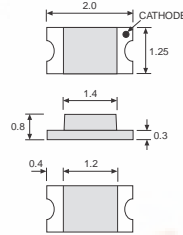
Dimensions (mm)




NOTE! - Polarity is reversed for TOL1608MR

Case & Viewing Angle	Emitted Colour	Lens Colour	Peak Wavelength nm	Typ. Luminous Intensity (I <sub>F</sub> = 20mA) mcd	Manf. Part No. & Anglia Order Code
<b>0805 Chip</b>  Viewing angle 170°	<b>NORMAL BRIGHTNESS</b>				
	Red	white-diffused	660	17	<b>TOL2012MR</b> <b>TOL2012MO</b> <b>TOL2012MY</b> <b>TOL2012MG</b>
	Orange	white-diffused	610	6	
	Yellow	white-diffused	585	7	
	Green	white-diffused	568	10	
	<b>HIGH BRIGHTNESS</b>				
	Red	white-diffused	632	45	<b>TOL2012MRB</b> <b>TOL2012MOB</b> <b>TOL2012MYB</b> <b>TOL2012MGB</b>
	Orange	white-diffused	611	45	
	Yellow	white-diffused	593	45	
	Green	white-diffused	570	30	

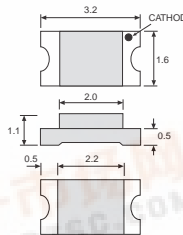
Dimensions (mm)



NOTE! - Polarity is reversed for TOL2012MR

Case & Viewing Angle	Emitted Colour	Lens Colour	Peak Wavelength nm	Typ. Luminous Intensity (I <sub>F</sub> = 20mA) mcd	Manf. Part No. & Anglia Order Code
<b>1206 Chip</b>  Viewing angle 170°	<b>NORMAL BRIGHTNESS</b>				
	Red	white-diffused	660	17	<b>TOL3216MR</b> <b>TOL3216MO</b> <b>TOL3216MY</b> <b>TOL3216MG</b>
	Orange	white-diffused	610	6	
	Yellow	white-diffused	585	7	
	Green	white-diffused	568	10	
	<b>HIGH BRIGHTNESS</b>				
	Red	white-diffused	632	45	<b>TOL3216MRB</b> <b>TOL3216MOB</b> <b>TOL3216MYB</b> <b>TOL3216MGB</b>
	Orange	white-diffused	611	45	
	Yellow	white-diffused	593	45	
	Green	white-diffused	570	30	

Dimensions (mm)



NOTE! - Polarity is reversed for TOL3216MR

**Packaging**

TAPE : 8mm wide, 4mm pitch

REEL : 178mm dia.



For the very latest information and news on the full range of TITAN OPTO products available from Anglia, visit our website :

[www.angliac.com/titan-opto](http://www.angliac.com/titan-opto)

Alternatively, contact our Sales Desk to discuss your specific requirements.



### CHIP - standard



Case & Viewing Angle

#### 0603 Chip



Viewing angle 140°

#### NORMAL BRIGHTNESS

Emitted Colour	Lens Colour	Peak Wavelength nm	Typ. Luminous Intensity (I <sub>F</sub> = 20mA) mcd	Chip Height (H) mm
Red	water-clear	650	4	0.8
Red	water-clear	660	10	0.8
Orange	water-clear	610	6.3	0.8
Yellow	water-clear	585	6.3	0.8
Green	water-clear	570	16	0.8
Green	white-diffused	570	16	0.55
Green	white-diffused	570	16	0.4
Pure-Green	water-clear	555	4	0.8

#### HIGH BRIGHTNESS

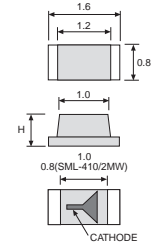
Red	white-diffused	630	40	0.55
Red	white-diffused	630	63	0.55
Orange	white-diffused	611	40	0.55
Orange	white-diffused	611	63	0.55
Yellow	white-diffused	590	40	0.55
Yellow	white-diffused	590	63	0.55
Green	white-diffused	570	40	0.55
Green	white-diffused	570	40	0.4
Green*	water-clear	523	90	0.8
Green*	water-clear	518	200	0.8
Blue*	water-clear	428	3.6	0.8
Blue*	water-clear	468	14	0.8
Blue*	water-clear	468	63	0.8

Manf. Part No. & Anglia Order Code

SML-310VT  
SML-310LT  
SML-310DT  
SML-310YT  
SML-310MT  
SML-510MW  
SML-410MW  
SML-310PT

SML-511UW  
SML-512UW  
SML-511DW  
SML-512DW  
SML-511WW  
SML-512WW  
SML-512MW  
SML-412MW  
SML311EBT  
SML312ECT  
SML310BAT  
SML311BBT  
SML312BCT

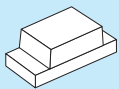
Dimensions (mm)



\*These LEDs are electrostatic sensitive devices. Observe precautions for handling

Case & Viewing Angle

#### 0805 Chip



Viewing angle 140°

#### NORMAL BRIGHTNESS

Emitted Colour	Lens Colour	Peak Wavelength nm	Typ. Luminous Intensity (I <sub>F</sub> = 20mA) mcd	Chip Height (H) mm
Red	water-clear	650	4	0.8
Red	water-clear	660	10	0.8
Orange	water-clear	610	6.3	0.8
Yellow	water-clear	585	6.3	0.8
Green	water-clear	570	16	0.8
Pure-Green	water-clear	555	4	0.8

#### HIGH BRIGHTNESS

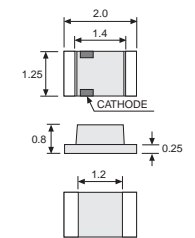
Red	water-clear	639	63	0.8
Orange	water-clear	611	63	0.8
Yellow	water-clear	591	63	0.8

Manf. Part No. & Anglia Order Code

SML-210VT  
SML-210LT  
SML-210DT  
SML-210YT  
SML-210MT  
SML-210PT

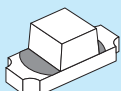
SML-212VT  
SML-212DT  
SML-212YT

Dimensions (mm)



Case & Viewing Angle

#### 1305 Chip Reverse Mounting



Viewing angle 140°

#### NORMAL BRIGHTNESS

Green	water-clear	570	16	1.1
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#### HIGH BRIGHTNESS

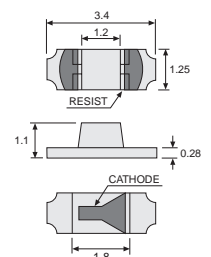
Green	water-clear	570	40	1.1
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Manf. Part No. & Anglia Order Code

SML-810MT

SML-812MT

Dimensions (mm)



Reverse mounting types, ideal for backlight applications

#### Packaging

TAPE : 8mm wide, 4mm pitch

REEL : 178mm dia.