



TOYO LED ELECTRONICS LTD

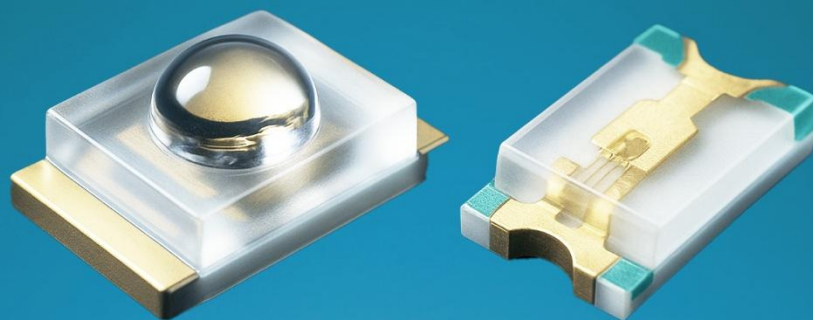


Toyo LED Electronics Limited

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Toyo SMD Product List



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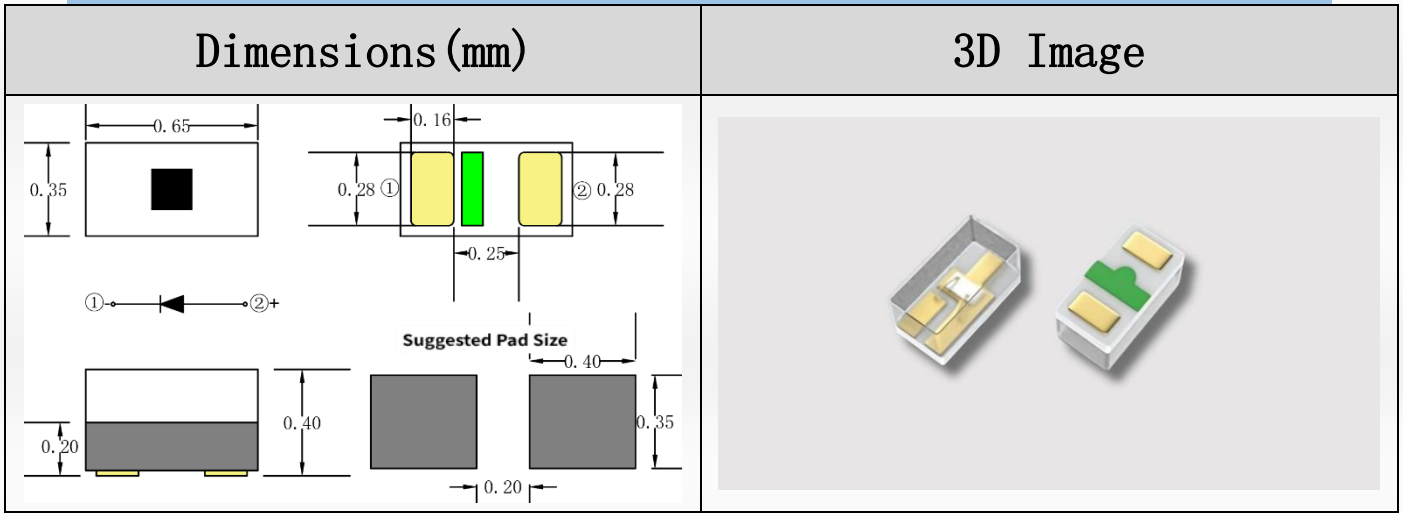
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0201 Series (0.4 Thickness)

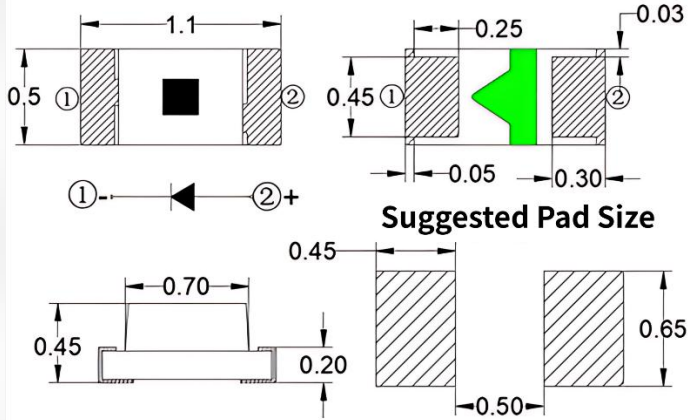


Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X0201UR1 (0.40) -A	0.65*0.35*0.4	Red	618-635	1.8	2.4	50	80	120°	5
TY-X0201PG1 (0.40) -A	0.65*0.35*0.4	Green	512-525	2.5	3.5	150	180		5
TY-X0201BL1 (0.40) -A	0.65*0.35*0.4	Blue	460-470	2.5	3.5	70	90		5
TY-X0201UA1 (0.40) -A	0.65*0.35*0.4	Orange	600-610	1.8	2.4	70	90		5
TY-X0201UY1 (0.40) -A	0.65*0.35*0.4	Yellow	580-595	1.8	2.4	40	90		5
TY-X0201UG1 (0.40) -A	0.65*0.35*0.4	Yellow Green	565-575	2.5	3.5	11.5	70		5
TY-X0201PW1 (0.40) -A	0.65*0.35*0.4	Pure White	5000-6500	2.5	3.5	150	300		5
TY-X0201WW1 (0.40) -A	0.65*0.35*0.4	Warm White	2700-3500	2.5	3.5	150	300		5
TY-X0201NW1 (0.40) -A	0.65*0.35*0.4	Natural white	4000-4500	2.5	3.0	270	400		5
TY-X0201CW1 (0.40) -A	0.65*0.35*0.4	Cool White	6500-12000	2.5	3.0	270	400		5
TY-X0201CW2 (0.40) -A	0.65*0.35*0.4	Cool White	12000-25000	2.5	3.0	270	400		5
TY-X0201CW3 (0.40) -A	0.65*0.35*0.4	Cool White	100000	2.5	3.0	270	400		5

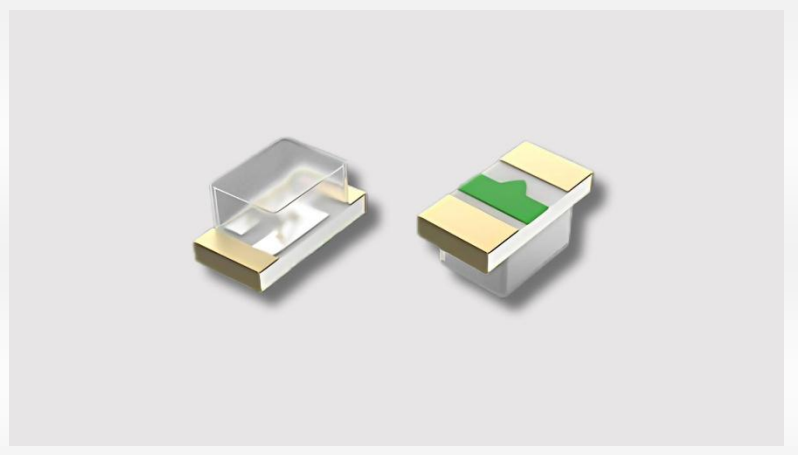


0402 Series (0.45 Thickness)

Dimensions (mm)



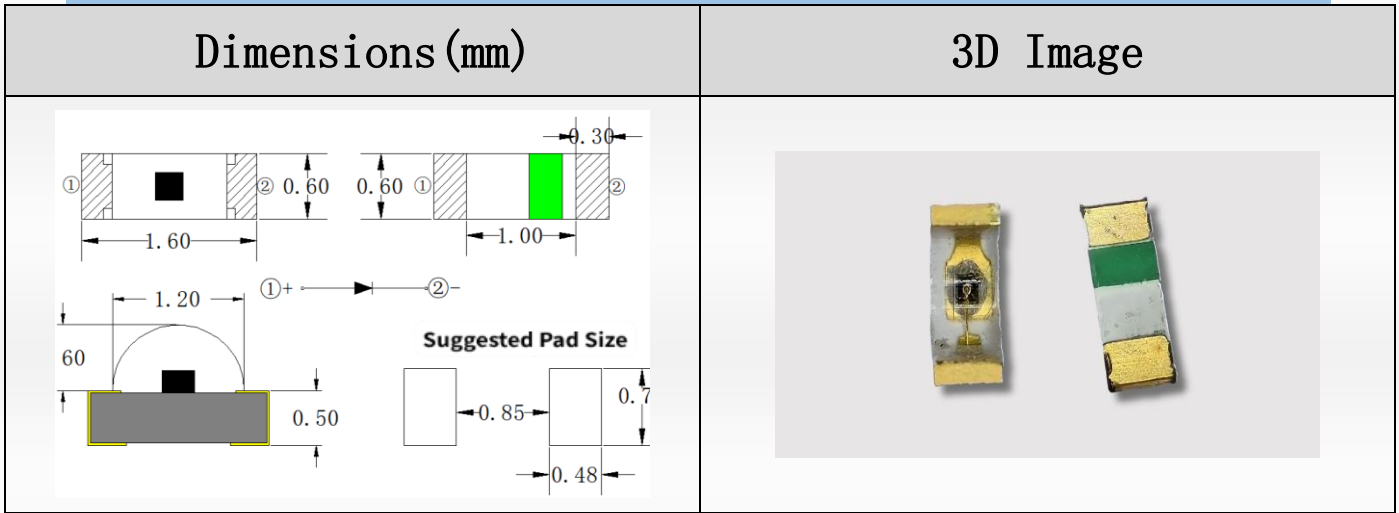
3D Image



Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2 θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X0402UR1 (0.45)-A	1.0*0.5*0.45	Red	618-640	1.7	2.2	100	120	120°	5
TY-X0402PG1 (0.45)-A	1.0*0.5*0.45	Green	512-525	2.7	3.2	28.5	450		5
TY-X0402BL1 (0.45)-A	1.0*0.5*0.45	Blue	460-470	2.7	3.2	180	450		5
TY-X0402UA1 (0.45)-A	1.0*0.5*0.45	Orange	600-610	1.9	2.3	40	355		5
TY-X0402UY1 (0.45)-A	1.0*0.5*0.45	Yellow	580-595	1.9	2.3	40	355		5
TY-X0402UG1 (0.45)-A	1.0*0.5*0.45	Yellow Green	565-575	1.9	2.3	11.5	90		5
TY-X0402PW1 (0.45)-A	1.0*0.5*0.45	Pure White	5000-6500	2.6	3.2	160	300		5
TY-X0402WW1 (0.45)-A	1.0*0.5*0.45	Warm White	2700-3500	2.6	3.2	160	300		5
TY-X0402NW1 (0.45)-A	1.0*0.5*0.45	Natural white	4000-4500	2.6	3.2	270	410		5
TY-X0402CW1 (0.45)-A	1.0*0.5*0.45	Cool White	6500-12000	2.6	3.2	270	410		5
TY-X0402CW2 (0.45)-A	1.0*0.5*0.45	Cool White	12000-25000	2.6	3.2	270	410		5
TY-X0402CW3 (0.45)-A	1.0*0.5*0.45	Cool White	100000	2.6	3.2	270	410		5



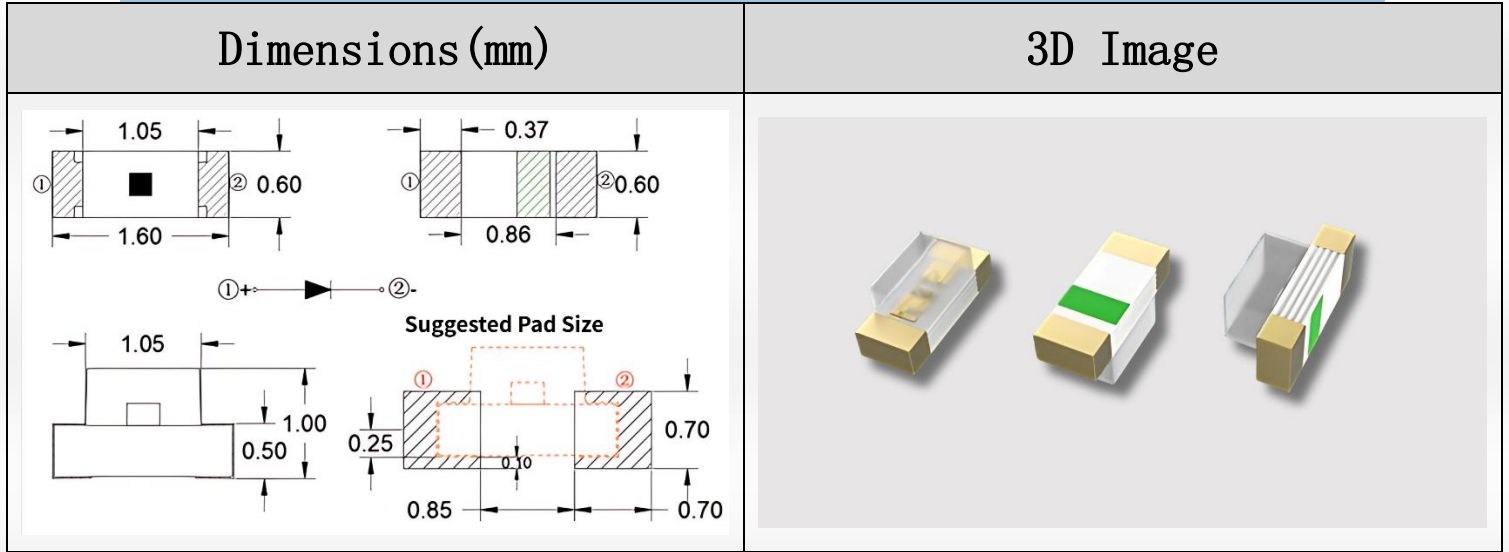
0602 Series (Side View) Dome Lens (1.10 Thickness)



Product	Size (L*W*Hmm)	Color	λd (nm) / CCT(K) / CIE(X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-XSV0602UR1 (1.10)-A	1.6*0.6*1.1	Red	615-640	1.8	2.4	55	690	130°	20
TY-XSV0602PG1 (1.10)-A	1.6*0.6*1.1	Green	515-530	2.6	3.2	170	850		
TY-XSV0602BL1 (1.10)-A	1.6*0.6*1.1	Blue	457-472	2.6	3.2	100	280		
TY-XSV0602UA1 (1.10)-A	1.6*0.6*1.1	Orange	598-610	1.8	2.4	55	440		
TY-XSV0602UG1 (1.10)-A	1.6*0.6*1.1	Yellow Green	560-578	1.8	2.4	15	55		
TY-XSV0602CW1 (1.10)-A	1.6*0.6*1.1	Cool White	/	2.6	3.2	550	1050		
TY-XSV0602UY1 (1.10)-A	1.6*0.6*1.1	Yellow	580-598	1.8	2.4	75	550		



0602 Series (Side View) (1.00 Thickness)



Product	Size (L*W*Hmm)	Color	λ d (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-XSV0602UR1 (1.0)-A	1.6*0.6*1.0	Red	618-640	1.8	2.4	7.2	280	120°	5
TY-XSV0602PG1 (1.0)-A	1.6*0.6*1.0	Green	512-525	2.8	3.6	28.5	450		5
TY-XSV0602BL1 (1.0)-A	1.6*0.6*1.0	Blue	460-470	2.8	3.4	180	450		5
TY-XSV0602UA1 (1.0)-A	1.6*0.6*1.0	Orange	600-610	1.8	2.4	40	355		5
TY-XSV0602UY1 (1.0)-A	1.6*0.6*1.0	Yellow	580-595	1.8	2.4	40	355		5
TY-XSV0602UG1 (1.0)-A	1.6*0.6*1.0	Yellow Green	565-575	1.8	2.4	11.5	90		5
TY-XSV0602NW1 (1.0)-A	1.6*0.6*1.0	Natural White	4000-4500	2.5	3.3	160	300		5
TY-XSV0602WW1 (1.0)-A	1.6*0.6*1.0	Warm white	2700-3500	2.5	3.2	160	300		5
TY-XSV0602PW1 (1.0)-A	1.6*0.6*1.0	Pure White	5000-6500	2.5	3.2	270	410		5
TY-XSV0602CW1 (1.0)-A	1.6*0.6*1.0	Cool White	6500-12000	2.5	3.2	270	410		5
TY-XSV0602WC2 (1.0)-A	1.6*0.6*1.0	Cool White	12000-25000	2.5	3.2	270	410		5
TY-XSV0602CW3 (1.0)-A	1.6*0.6*1.0	Cool White	100000	2.5	3.2	270	410		5



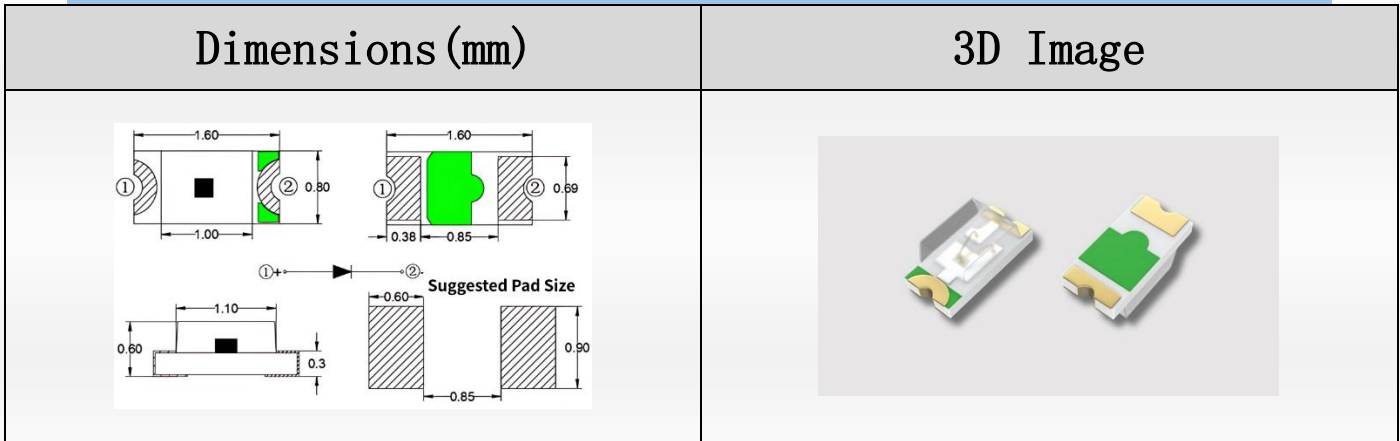
0603 Series (0.40 Thickness)

Dimensions (mm)	3D Image
<p>Technical drawings showing dimensions (mm) and suggested pad sizes for the 0603 LED package. Dimensions include 1.60, 1.10, 0.80, 0.69, 0.85, 0.38, 0.2, 0.40, 0.85, and 0.60. A suggested pad size diagram shows a 1.10 x 0.40 pad with a 0.2 offset. A symbol indicates the pad size for the anode (1) and cathode (2).</p>	<p>3D perspective views of the LED package showing the anode and cathode pads.</p>

Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X0603UR1 (0.40) -A	1.6*0.8*0.4	Red	618-640	1.7	2.3	7.2	280	120°	5
TY-X0603PG1 (0.40) -A	1.6*0.8*0.4	Green	515-525	2.7	3.2	28.5	450		5
TY-X0603BL1 (0.40) -A	1.6*0.8*0.4	Blue	460-470	2.5	3.1	180	450		5
TY-X0603UA1 (0.40) -A	1.6*0.8*0.4	Orange	600-610	1.7	2.2	40	355		5
TY-X0603UY1 (0.40) -A	1.6*0.8*0.4	Yellow	580-595	1.7	2.2	40	355		5
TY-X0603UG1 (0.40) -A	1.6*0.8*0.4	Yellow Green	565-575	1.7	2.3	11.5	90		5
TY-X0603WW1 (0.40) -A	1.6*0.8*0.4	Warm White	2700-3500	2.7	3.2	160	300		5
TY-X0603NW1 (0.40) -A	1.6*0.8*0.4	Natural white	4000-4500	2.7	3.2	160	300		5
TY-X0603PW1 (0.40) -A	1.6*0.8*0.4	Pure White	5000-6500	2.7	3.2	160	300		5
TY-X0603CW1 (0.40) -A	1.6*0.8*0.4	Cool White	6500-12000	2.7	3.2	160	300		5
TY-X0603CW2 (0.40) -A	1.6*0.8*0.4	Cool White	12000-25000	2.7	3.2	160	300		5
TY-X0603CW3 (0.40) -A	1.6*0.8*0.4	Cool White	100000	2.7	3.2	160	300		5



0603 Series (0.60 Thickness)



Product	Size (L*W*Hmm)	Color	λd (nm) / CCT(K) / CIE(X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X0603UR1 (0.60) -A	1.6*0.8*0.6	Red	618-640	1.9	2.2	7.2	280	120°	5
TY-X0603PG1 (0.60) -A	1.6*0.8*0.6	Green	512-525	2.7	3.2	28.5	450		5
TY-X0603BL1 (0.60) -A	1.6*0.8*0.6	Blue	460-470	2.7	3.2	180	450		5
TY-X0603UA1 (0.60) -A	1.6*0.8*0.6	Orange	600-610	1.7	2.2	40	355		5
TY-X0603UY1 (0.60) -A	1.6*0.8*0.6	Yellow	580-595	1.7	2.2	40	355		5
TY-X0603UG1 (0.60) -A	1.6*0.8*0.6	Yellow Green	565-575	1.7	2.3	11.5	90		5
TY-X0603WW1 (0.60) -A	1.6*0.8*0.6	Warm White	2700-3500	2.7	3.0	160	300		5
TY-X0603PW1 (0.60) -A	1.6*0.8*0.6	Pure white	5000-6500	2.7	3.0	160	300		5
TY-X0603CW1 (0.60) -A	1.6*0.8*0.6	Cool White	6500-12000	2.7	3.0	160	300		5
TY-X0603CW2 (0.60) -A	1.6*0.8*0.6	Cool White	12000-25000	2.7	3.0	160	300		5
TY-X0603CW3 (0.60) -A	1.6*0.8*0.6	Cool White	100000	2.7	3.0	160	300		5



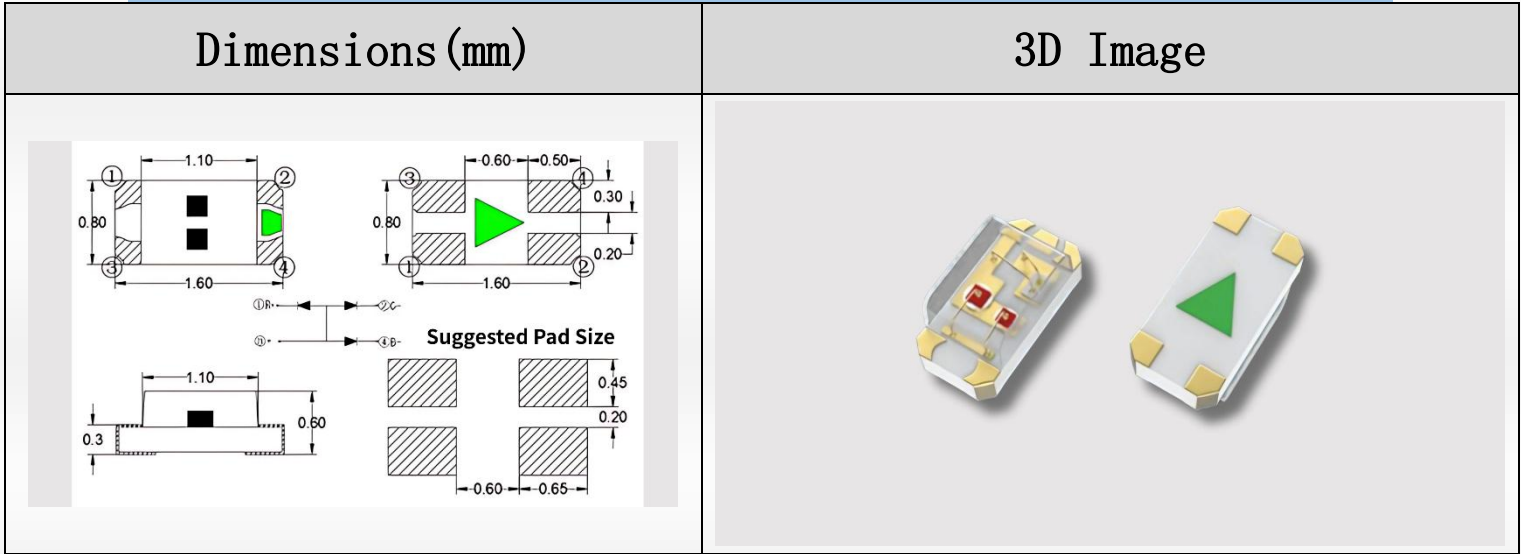
0603 Series (0.60 Thickness) (PL/IR)

Dimensions (mm)	3D Image
<p>Technical drawings showing dimensions in mm: - Top view: Overall width 1.60, mounting hole diameter 1.00, distance from hole to chip 0.80. - Side view: Overall height 0.60, chip height 0.30, mounting pad height 0.30. - Suggested Pad Size: Pad width 0.60, pad length 0.85, pad height 0.90. - Detailed chip view: Chip width 0.38, chip length 0.85, chip height 0.69.</p>	

Product	Size (L*W*Hmm)	λ_p (nm)	L _e Min (mW/sr)	L _e Typ (mW/sr)	VF-Typ	IF (mA)
TY-X0603IR1 (0.60)-A-940	1.6*0.8*0.6	940	0.2	0.8	1.4	20
TY-X0603IR2 (0.60)-A-940	1.6*0.8*0.6	940	4.2	6.5	1.4	20
TY-X0603IR1 (0.60)-A-850	1.6*0.8*0.6	850	4	7	1.4	20
TY-X0603PT1 (0.60)-A-940	1.6*0.8*0.6	940	0.4	1.77	4	/
TY-X0603PT1 (0.60)-A-880	1.6*0.8*0.6	880	0.4	0.3	0.6	/
TY-X0603PT2 (0.60)-A-940	1.6*0.8*0.6	940	0.4	1.14	3	/



0603 Series (0.60 Thickness)



Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2 θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X0603RGB1 (0.60)-A	1.6*0.8*0.6	Red	621-630	1.8	2.2	120	280	120°	5
		Green	524-525	2.7	3.2	28.5	450		
		Blue	461-466	2.7	3.2	180	450		
TY-X0603RYW1 (0.60)-A	1.6*0.8*0.6	Red	621-630	1.8	2.2	120	280		5
		Yellow	580-595	1.7	2.2	40	355		
		White	X:0.27 Y:0.22	2.7	3.2	160	300		
TY-X0603UY1UG1 (0.60)-A	1.6*0.8*0.6	Yellow	580-595	1.7	2.2	40	355		5
		Green	565-575	1.7	2.2	50	90		
TY-X0603UR1BL1 (0.60)-A	1.6*0.8*0.6	Red	621-630	1.8	2.2	120	280		5
		Blue	459-454	2.7	3.2	180	450		
TY-X0603UA1BL1 (0.60)-A	1.6*0.8*0.6	Orange	601-607	1.9	2.2	140	200	5	
		Blue	461-466	2.7	3.2	11.5	112		
TY-X0603UA1PG1 (0.60)-A	1.6*0.8*0.6	Orange	602-607	1.9	2.2	40	355	5	
		Green	524-525	2.7	3.2	28.5	450		
TY-X0603UR1PG1 (0.60)-A	1.6*0.8*0.6	Red	621-630	1.8	2.2	120	280	5	
		Green	524-525	2.7	3.2	28.5	450		
TY-X0603UA1WH1 (0.60)-A	1.6*0.8*0.6	Orange	602-607	1.9	2.2	40	355	5	
		White	X:0.27 Y:0.22	2.7	3.2	140	300		



0603 Series (0.80 Thickness)

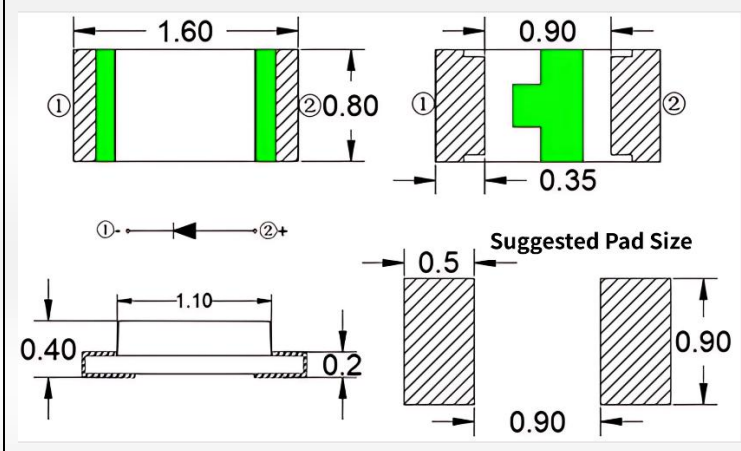
Dimensions (mm)	3D Image
<p>Technical drawings showing dimensions (mm) and suggested pad sizes for the 0603 LED package. Dimensions include 1.60, 0.80, 0.85, 0.38, 0.69, 1.10, 0.5, 0.80, 0.60, and 0.85. Suggested pad sizes are shown as rectangles with dimensions 0.60x0.85 and 0.80x0.90.</p>	<p>3D perspective views of the LED package showing the top and bottom surfaces.</p>

Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2 θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X0603UR1 (0.80)-A	1.6*0.8*0.8	Red	618-640	1.7	2.2	7.2	280	120°	5
TY-X0603PG1 (0.80)-A	1.6*0.8*0.8	Green	512-525	2.7	3.5	28.5	450		5
TY-X0603BL1 (0.80)-A	1.6*0.8*0.8	Blue	460-470	2.7	3.5	180	450		5
TY-X0603UA1 (0.80)-A	1.6*0.8*0.8	Orange	600-610	1.7	2.2	40	355		5
TY-X0603UY1 (0.80)-A	1.6*0.8*0.8	Yellow	580-595	1.7	2.2	40	355		5
TY-X0603UG1 (0.80)-A	1.6*0.8*0.8	Yellow Green	565-575	1.7	2.2	11.5	90		5
TY-X0603NW1 (0.80)-A	1.6*0.8*0.8	Natural White	4000-4500	2.5	3.5	160	300		5
TY-X0603WW1 (0.80)-A	1.6*0.8*0.8	Warm White	2700-3500	2.7	3.2	160	300		5
TY-X0603PW1 (0.80)-A	1.6*0.8*0.8	Pure white	5000-6500	2.7	3.0	270	410		5
TY-X0603CW1 (0.80)-A	1.6*0.8*0.8	Cool White	6500-9000	2.7	3.0	200	600		5
TY-X0603CW2 (0.80)-A	1.6*0.8*0.8	Cool White	9000-25000	2.7	3.0	200	800		5
TY-X0603CW3 (0.80)-A	1.6*0.8*0.8	Cool White	100000	2.7	3.0	200	800		5

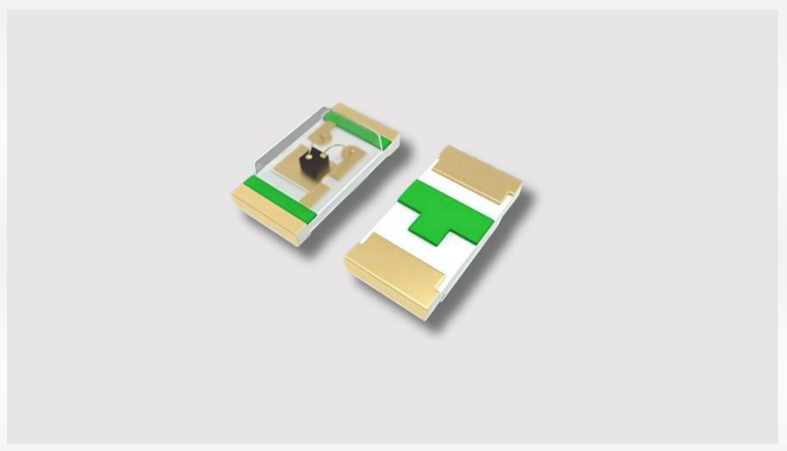


0603 Series (0.40 Thickness)

Dimensions (mm)



3D Image



Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X0603UR1 (0.40)-A-H	1.6*0.8*0.4	Red	618-640	1.7	2.2	7.2	280	120°	5
TY-X0603PG1 (0.40)-A-H	1.6*0.8*0.4	Green	512-525	2.7	3.5	28.5	450		5
TY-X0603BL1 (0.40)-A-H	1.6*0.8*0.4	Blue	460-470	2.7	3.5	180	450		5
TY-X0603UA1 (0.40)-A-H	1.6*0.8*0.4	Orange	600-610	1.7	2.2	40	355		5
TY-X0603UY1 (0.40)-A-H	1.6*0.8*0.4	Yellow	580-595	1.7	2.2	40	355		5
TY-X0603UG1 (0.40)-A-H	1.6*0.8*0.4	Yellow Green	565-575	1.7	2.2	11.5	90		5
TY-X0603WW1 (0.40)-A-H	1.6*0.8*0.4	Warm White	2700-3500	2.7	3.2	160	300		5
TY-X0603PW1 (0.40)-A-H	1.6*0.8*0.4	Pure white	5000-6500	2.7	3.2	270	400		5
TY-X0603CW1 (0.40)-A-H	1.6*0.8*0.4	Cool White	6500-12000	2.7	3.2	270	400		5
TY-X0603CW2 (0.40)-A-H	1.6*0.8*0.4	Cool White	12000-25000	2.7	3.2	270	400		5
TY-X0603CW3 (0.40)-A-H	1.6*0.8*0.4	Cool White	100000	2.7	3.2	270	400		5



0603 Series (0.60 Thickness)

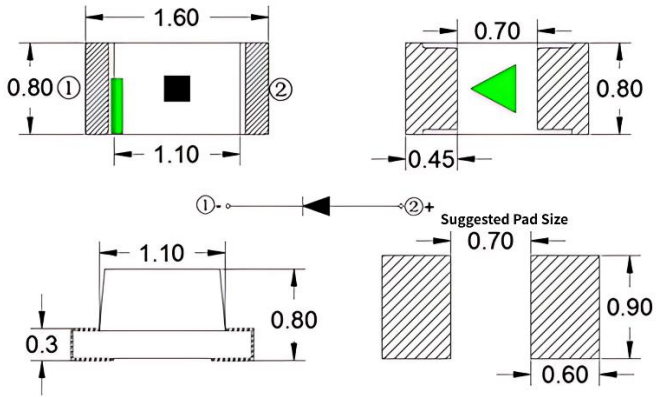
Dimensions (mm)	3D Image

Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle $2\theta 1/2$ (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X0603UR1 (0.60)-A-H	1.6*0.8*0.6	Red	618-640	1.7	2.2	7.2	280	120°	5
TY-X0603PG1 (0.60)-A-H	1.6*0.8*0.6	Green	515-525	2.5	3.5	28.5	450		5
TY-X0603BL1 (0.60)-A-H	1.6*0.8*0.6	Blue	460-470	2.5	3.5	180	450		5
TY-X0603UA1 (0.60)-A-H	1.6*0.8*0.6	Orange	600-610	1.7	2.2	40	355		5
TY-X0603UY1 (0.60)-A-H	1.6*0.8*0.6	Yellow	580-595	1.7	2.2	40	355		5
TY-X0603UG1 (0.60)-A-H	1.6*0.8*0.6	Yellow Green	565-575	1.7	2.2	11.5	90		5
TY-X0603NW1 (0.60)-A-H	1.6*0.8*0.6	Natural White	4000-4500	2.5	3.3	160	300		5
TY-X0603WW1 (0.60)-A-H	1.6*0.8*0.8	Warm White	2700-3500	2.5	3.2	160	300		5
TY-X0603PW1 (0.60)-A-H	1.6*0.8*0.8	Pure white	5000-6500	2.5	3.2	270	410		5
TY-X0603CW1 (0.60)-A-H	1.6*0.8*0.6	Cool White	6500-12000	2.5	3.2	160	300		5
TY-X0603CW2 (0.60)-A-H	1.6*0.8*0.8	Cool White	12000-25000	2.5	3.2	270	410		5
TY-X0603CW3 (0.60)-A-H	1.6*0.8*0.8	Cool White	100000	2.5	3.2	270	410		5

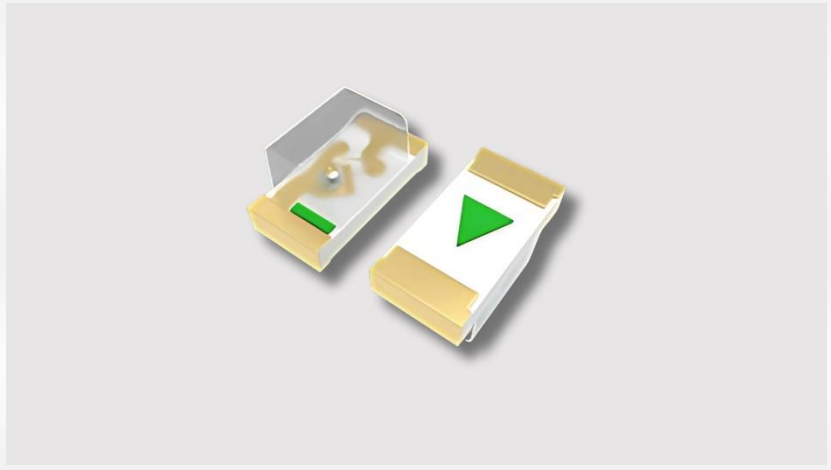


0603 Series (0.80 Thickness)

Dimensions (mm)



3D Image

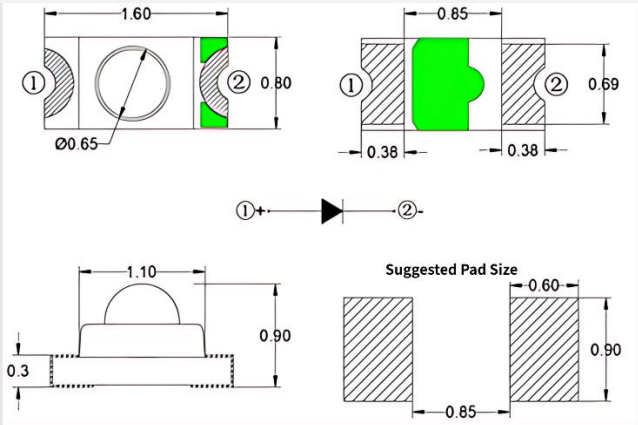


Product	Size (L*W*Hmm)	Color	λd (nm) / CCT(K) / CIE(X, Y)	Vf (V)		IV (mcd)		Viewing Angle $2\theta 1/2$ (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X0603UR1 (0.80)-A-H	1.6*0.8*0.8	Red	618-640	1.7	2.2	7.2	280	120°	5
TY-X0603PG1 (0.80)-A-H	1.6*0.8*0.8	Green	512-525	2.5	3.5	28.5	450		5
TY-X0603BL1 (0.80)-A-H	1.6*0.8*0.8	Blue	460-470	2.5	3.5	180	450		5
TY-X0603UA1 (0.80)-A-H	1.6*0.8*0.8	Orange	600-610	1.7	2.2	40	355		5
TY-X0603UY1 (0.80)-A-H	1.6*0.8*0.8	Yellow	580-595	1.7	2.2	40	355		5
TY-X0603UG1 (0.80)-A-H	1.6*0.8*0.8	Yellow Green	565-575	1.7	2.2	11.5	90		5
TY-X0603NW1 (0.80)-A-H	1.6*0.8*0.8	Natural White	4000-4500	2.5	3.2	160	300		5
TY-X0603WW1 (0.80)-A-H	1.6*0.8*0.8	Warm White	2700-3500	2.5	3.2	160	300		5
TY-X0603PW1 (0.80)-A-H	1.6*0.8*0.8	Pure white	5000-6500	2.5	3.2	270	410		5
TY-X0603CW1 (0.80)-A-H	1.6*0.8*0.8	Cool White	6500-12000	2.5	3.2	270	410		5
TY-X0603CW2 (0.80)-A-H	1.6*0.8*0.8	Cool White	12000-25000	2.5	3.2	270	410		5
TY-X0603CW3 (0.80)-A-H	1.6*0.8*0.8	Cool White	100000	2.5	3.2	270	410		5



0603 Series (0.90 Thickness) Dome Lens

Dimensions (mm)



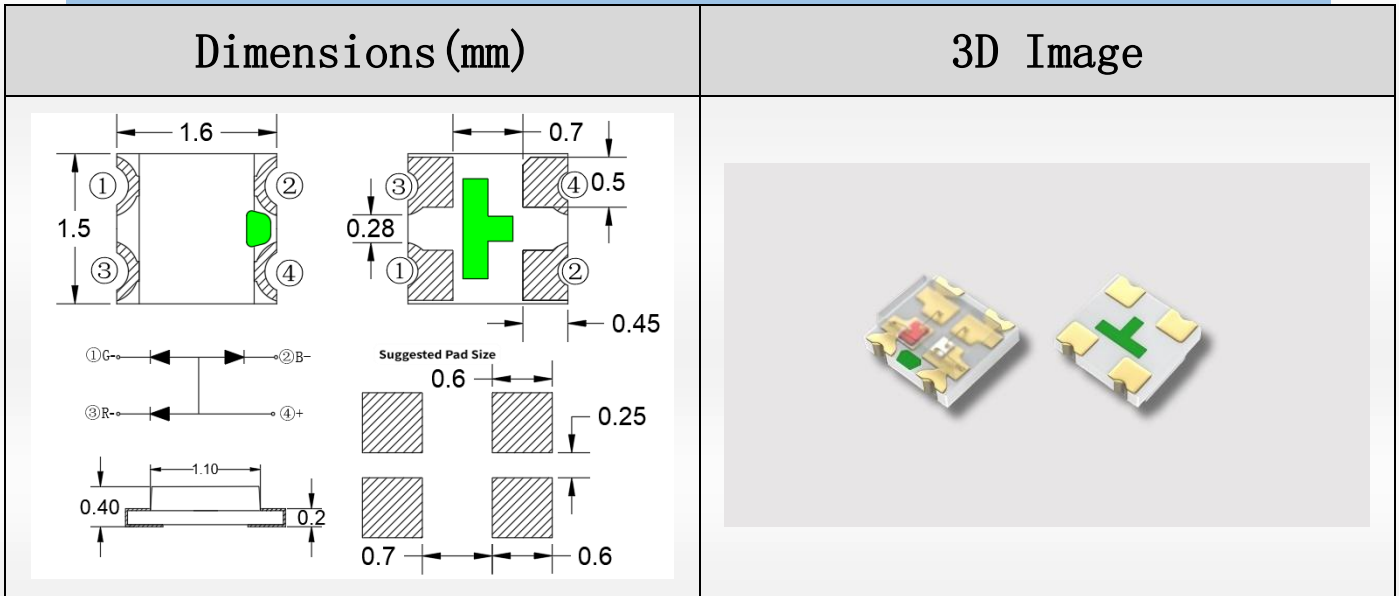
3D Image



Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X0603UR1 (0.90)-A-LS	1.6*0.8*0.9	Red	618-640	1.7	2.2	7.2	280	30° / 60°	5
TY-X0603PG1 (0.90)-A-LS	1.6*0.8*0.9	Green	512-525	2.7	3.5	28.5	450		5
TY-X0603BL1 (0.90)-A-LS	1.6*0.8*0.9	Blue	460-470	2.7	3.5	180	450		5
TY-X0603UA1 (0.90)-A-LS	1.6*0.8*0.9	Orange	600-610	1.7	2.2	40	355		5
TY-X0603UY1 (0.90)-A-LS	1.6*0.8*0.9	Yellow	580-595	1.7	2.2	40	355		5
TY-X0603UG1 (0.90)-A-LS	1.6*0.8*0.9	Yellow Green	565-575	1.7	2.2	11.5	90		5
TY-X0603NW1 (0.90)-A-LS	1.6*0.8*0.9	Natural White	4000-4500	2.7	3.3	160	300		5
TY-X0603WW1 (0.90)-A-LS	1.6*0.8*0.9	Warm White	2700-3500	2.7	3.2	160	300		5
TY-X0603PW1 (0.90)-A-LS	1.6*0.8*0.9	Pure white	5000-6500	2.7	3.2	270	400		5
TY-X0603CW1 (0.90)-A-LS	1.6*0.8*0.9	Cool White	6500-12000	2.7	3.2	270	400		5
TY-X0603CW2 (0.90)-A-LS	1.6*0.8*0.9	Cool White	12000-25000	2.7	3.2	270	400		5
TY-X0603CW3 (0.90)-A-LS	1.6*0.8*0.9	Cool White	100000	2.7	3.2	270	400		5



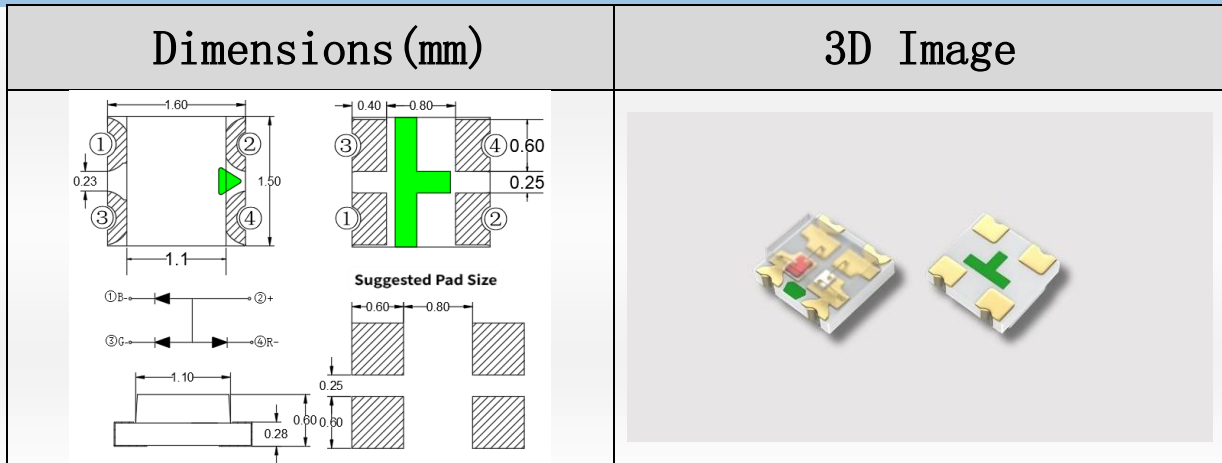
0606 Series (0.40 Thickness)



Product	Size (L*W*Hmm)	Color	λ d (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X0606UR1BL1 (0.40) -A	1.6*1.5*0.4	Red	620-630	1.7	2.2	7.2	280	120°	20
		Blue	460-470	2.5	3.5	180	450		
TY-X0606UY1BL1 (0.40) -A	1.6*1.5*0.4	Blue	460-470	2.5	3.5	180	450		20
		Yellow	580-595	1.7	2.2	40	355		
TY-X0606UR1UG1 (0.40) -A	1.6*1.5*0.4	Red	620-630	1.7	2.2	7.2	280		20
		Yellow Green	565-575	1.7	2.2	11.5	90		
TY-X0606RGB1 (0.40) -A	1.6*1.5*0.4	Red	620-630	1.7	2.2	7.2	280		20
		Green	512-525	2.5	3.5	28.5	450		
		Blue	460-470	2.5	3.5	180	450		



0606 Series (0.40 Thickness)

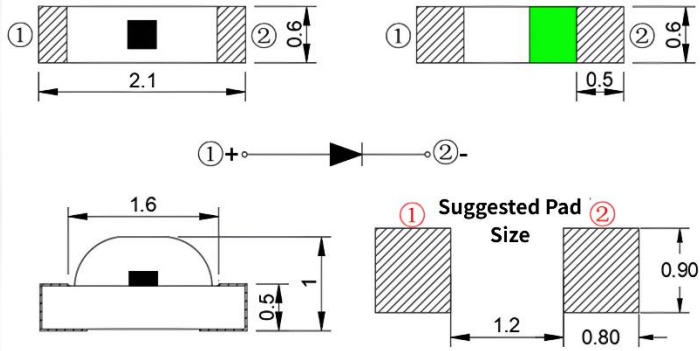


Product	Size (L*W*Hmm)	Color	λ d (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2 θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X0606UR1PG1 (0.40) -A	1.6*1.5*0.4	Red	620-630	1.7	2.2	11.5	280	120°	20
		Green	512-525	2.5	3.5	28.5	450		
TY-X0606PG1BL1 (0.40) -A	1.6*1.5*0.4	Green	512-525	2.5	3.5	28.5	450		20
		Blue	460-470	2.5	3.5	180	450		
TY-X0606UA1WH1 (0.40) -A	1.6*1.5*0.4	White	X:0.27 Y:0.22	2.5	3.5	170	410		20
		Orange	601-610	1.7	2.2	70	150		
TY-X0606UR1WH1 (0.40) -A	1.6*1.5*0.4	Red	620-625	1.7	2.2	11.5	280		20
		White	X:0.27 Y:0.22	2.5	3.5	170	410		
TY-X0606UA1UG1 (0.40) -A	1.6*1.5*0.4	Orange	601-610	1.7	2.2	70	150		20
		Yellow Green	565-575	1.7	2.2	20	150		
TY-X0606RGB1 (0.40) -A	1.6*1.5*0.4	Red	620-630	1.7	2.2	11.5	280		20
		Green	512-525	2.5	3.5	100	300		
		Blue	460-470	2.5	3.5	200	400		
TY-X0606AGW1 (0.40) -A	1.6*1.5*0.4	Orange	601-610	1.7	2.2	70	150		20
		Green	512-525	2.5	3.5	140	210		
		White	X:0.27 Y:0.22	2.5	3.5	140	210		
TY-X0606RYBW1 (0.40) -A	1.6*1.5*0.4	Ice Blue	X:0.15 Y:0.18	2.5	3.5	140	210	20	
		Red	620-630	1.7	2.2	11.5	280		
		Yellow	580-595	1.7	2.2	11.5	300		

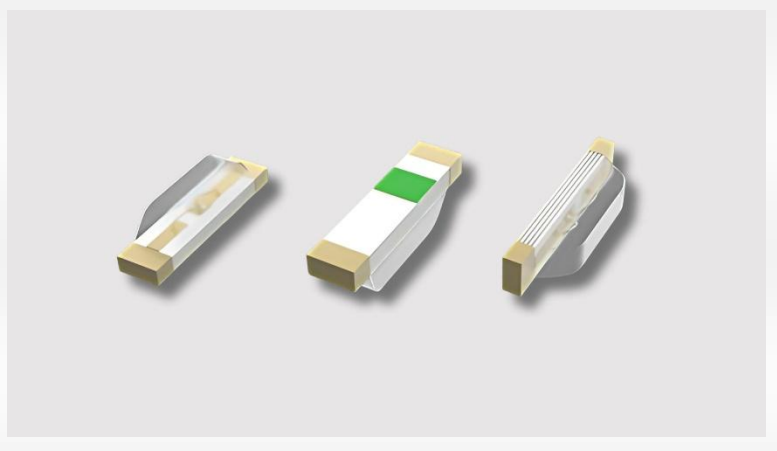


0802 Series (Side View) (1.00 Thickness)

Dimensions (mm)



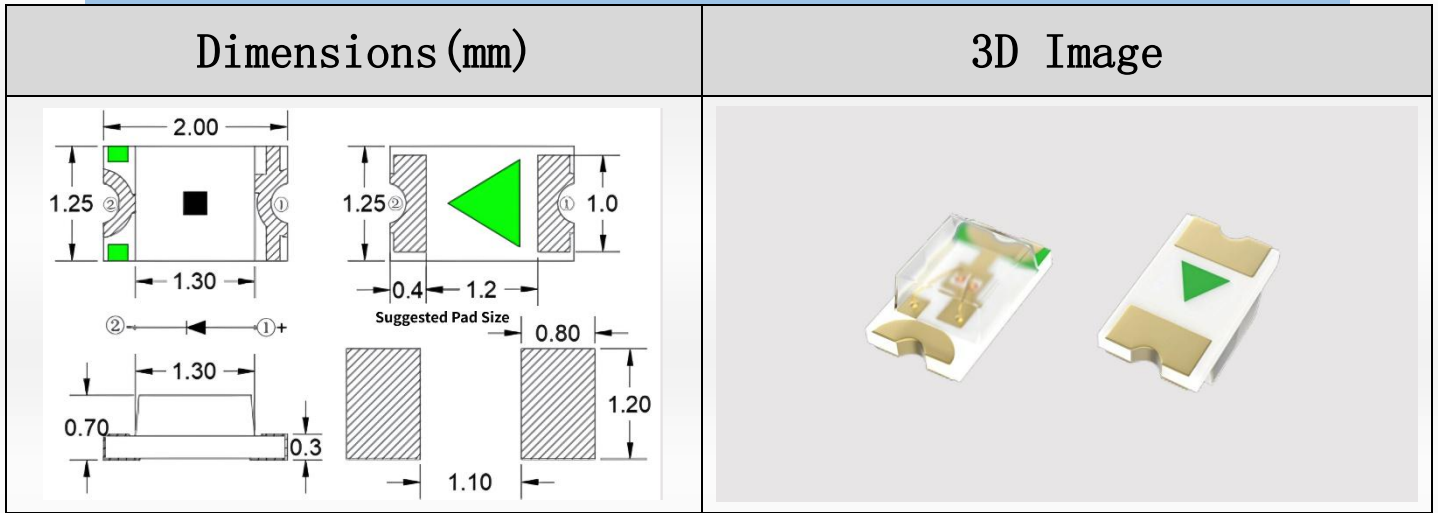
3D Image



Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-XSV0802UR1 (1.0)-A	2.1*0.6*1.0	Red	618-640	1.8	2.4	7.2	280	120°	5
TY-XSV0802PG1 (1.0)-A	2.1*0.6*1.0	Green	512-525	2.8	3.6	28.5	450		5
TY-XSV0802BL1 (1.0)-A	2.1*0.6*1.0	Blue	460-470	2.8	3.4	180	450		5
TY-XSV0802UA1 (1.0)-A	2.1*0.6*1.0	Orange	601-606	1.8	2.4	40	355		5
TY-XSV0802UY1 (1.0)-A	2.1*0.6*1.0	Yellow	580-595	1.8	2.4	40	355		5
TY-XSV0802UG1 (1.0)-A	2.1*0.6*1.0	Yellow Green	565-575	1.8	2.4	11.5	90		5
TY-XSV0802NW1 (1.0)-A	2.1*0.6*1.0	Natural White	4000-4500	2.7	3.3	160	300		5
TY-XSV0802WW1 (1.0)-A	2.1*0.6*1.0	Warm White	2700-3500	2.7	3.2	160	300		5
TY-XSV0802PW1 (1.0)-A	2.1*0.6*1.0	Pure white	5000-6500	2.7	3.2	270	410		5
TY-XSV0802CW1 (1.0)-A	2.1*0.6*1.0	Cool White	6500-12000	2.7	3.2	270	410		5
TY-XSV0802WC2 (1.0)-A	2.1*0.6*1.0	Cool White	12000-25000	2.7	3.2	270	410		5
TY-XSV0802CW3 (1.0)-A	2.1*0.6*1.0	Cool White	100000	2.7	3.2	270	410		5



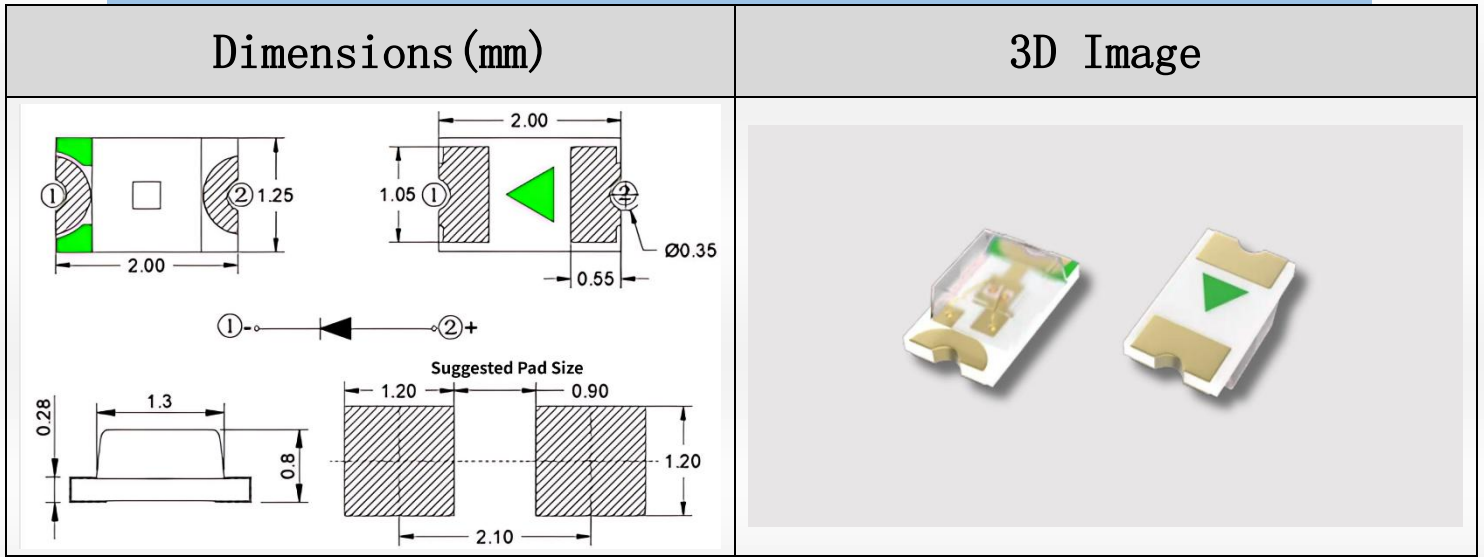
0805 Series (0.70 Thickness)



Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2 θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X0805UR1 (0.70) -A	2.0*1.25*0.7	Red	620-624	1.7	2.2	7.2	280	120°	5
TY-X0805PG1 (0.70) -A	2.0*1.25*0.7	Green	515-525	2.7	3.2	28.5	450		5
TY-X0805BL1 (0.70) -A	2.0*1.25*0.7	Blue	460-470	2.7	3.2	180	450		5
TY-X0805UA1 (0.70) -A	2.0*1.25*0.7	Orange	601-606	1.7	2.2	40	355		5
TY-X0805U1 (0.70) -A	2.0*1.25*0.7	Yellow	580-595	1.7	2.2	40	355		5
TY-X0805UG1 (0.70) -A	2.0*1.25*0.7	Yellow Green	568-574	1.7	2.2	11.5	90		5
TY-X0805NW1 (0.70) -A	2.0*1.25*0.7	Natural White	4000-4500	2.7	3.3	160	300		5
TY-X0805WW1 (0.70) -A	2.0*1.25*0.7	Warm White	2700-3500	2.7	3.3	160	300		5
TY-X0805PW1 (0.70) -A	2.0*1.25*0.7	Pure white	5000-6500	2.8	3.3	270	410		5
TY-X0805CW1 (0.70) -A	2.0*1.25*0.7	Cool White	6500-12000	2.8	3.3	270	410		5
TY-X0805CW2 (0.70) -A	2.0*1.25*0.7	Cool White	12000-25000	2.8	3.3	270	410		5
TY-X0805CW3 (0.70) -A	2.0*1.25*0.7	Cool White	100000	2.8	3.3	270	410		5



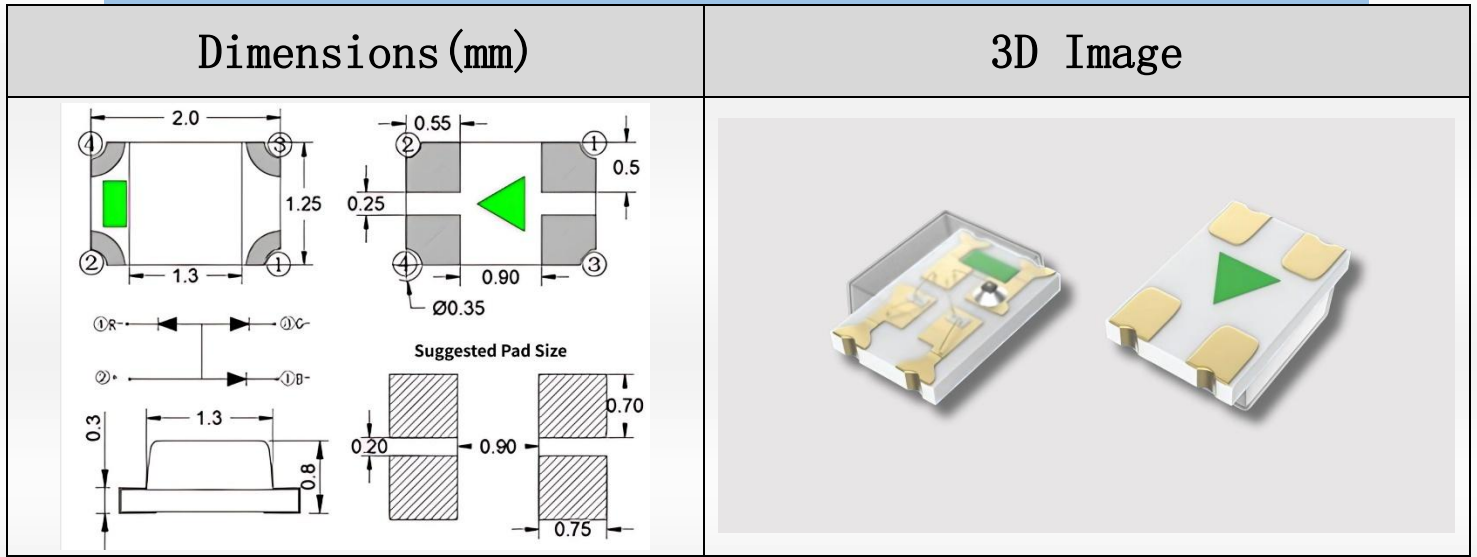
0805 Series (0.80 Thickness)



Product	Size (L*W*Hmm)	Color	λ d (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2 θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X0805UR1 (0.80)-A	2.0*1.25*0.8	Red	619-630	1.7	2.2	7.2	280	120°	5
TY-X0805PG1 (0.80)-A	2.0*1.25*0.8	Green	515-525	2.7	3.2	28.5	450		5
TY-X0805BL1 (0.80)-A	2.0*1.25*0.8	Blue	460-470	2.7	3.2	180	450		5
TY-X0805UA1 (0.80)-A	2.0*1.25*0.8	Orange	600-610	1.7	2.2	40	355		5
TY-X0805U1 (0.8)-A	2.0*1.25*0.8	Yellow	580-595	1.7	2.2	40	355		5
TY-X0805UG1 (0.80)-A	2.0*1.25*0.8	Yellow Green	565-575	1.7	2.2	11.5	90		5
TY-X0805NW1 (0.80)-A	2.0*1.25*0.8	Natural White	4000- 4500	2.7	3.3	160	300		5
TY-X0805WW1 (0.80)-A	2.0*1.25*0.8	Warm White	2700- 3500	2.7	3.3	160	300		5
TY-X0805PW1 (0.80)-A	2.0*1.25*0.8	Pure white	5000- 6500	2.8	3.3	270	410		5
TY-X0805CW1 (0.80)-A	2.0*1.25*0.8	Cool White	6500- 12000	2.8	3.3	270	410		5
TY-X0805CW2 (0.80)-A	2.0*1.25*0.8	Cool White	12000- 25000	2.8	3.3	270	410		5
TY-X0805CW3 (0.80)-A	2.0*1.25*0.8	Cool White	100000	2.8	3.3	270	410		5
TY-X0805BW1 (0.80)-A	2.0*1.25*0.8	Ice Blue	X:0.15 Y:0.18	2.5	3.5	30	150	20	



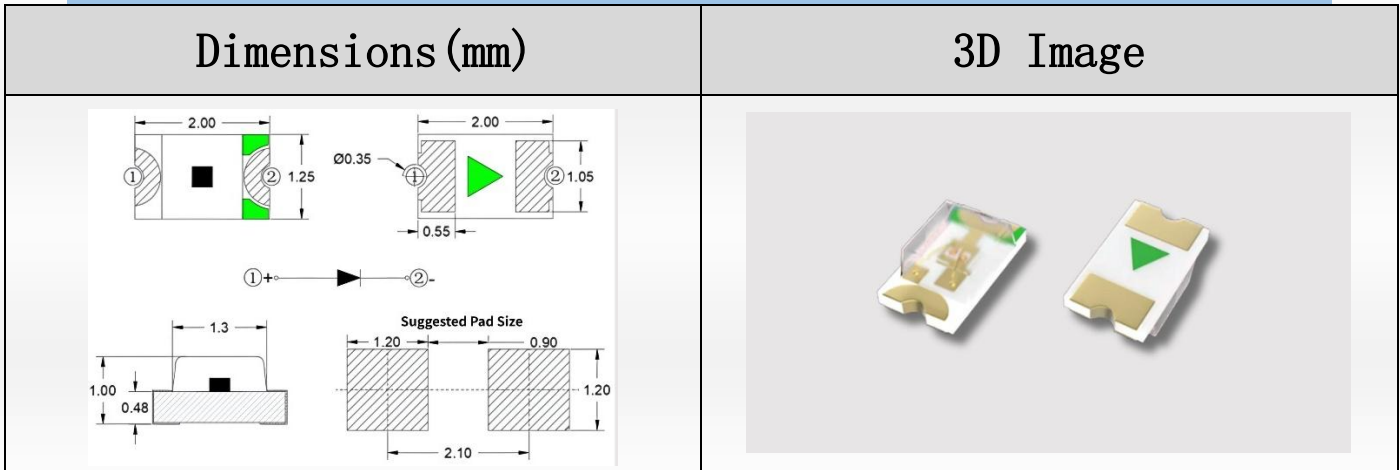
0805 Series (0.80 Thickness)



Product	Size (L*W*Hmm)	Color	λ_d (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2 θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X0805RGB1 (0.80)-A	2.0*1.25*0.8	Red	620-625	1.7	2.2	11.5	100	120°	20
		Green	565-570	2.7	2.9	200	300		
		Blue	460-470	2.7	3.2	80	150		
TY-X0805GBR1 (0.80)-A	2.0*1.25*0.8	Green	565-570	2.7	2.9	200	300		
		Blue	460-470	2.7	3.2	80	150		
		Red	620-625	1.7	2.2	11.5	100		
TY-X0805RGB1 (0.80)-A	2.0*1.25*0.8	Red	620-630	1.7	2.2	11.5	100		
		Green	512-525	2.7	2.9	200	300		
		Blue	460-470	2.7	3.2	80	150		
TY-X0805UR1UG1 (0.80)-A	2.0*1.25*0.8	Red	620-625	1.7	2.2	11.5	100		
		Green	567-570	2.7	3.1	200	400		
TY-X0805UR1WH1 (0.80)-A	2.0*1.25*0.8	Red	620-625	1.7	2.2	11.5	100		
		White	X:0.27 Y:0.22	2.5	3.5	50	300		
TY-X0805UA1WH1 (0.80)-A	2.0*1.25*0.8	Orange	601-606	1.7	2.2	70	150		
		White	X:0.27 Y:0.22	2.5	3.5	50	300		



0805 Series (1.00 Thickness)



Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle $2\theta_{1/2}$ (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X0805UR1 (1.0)-A	2.0*1.25*1.0	Red	618-640	1.7	2.2	7.2	280	120°	5
TY-X0805PG1 (1.0)-A	2.0*1.25*1.0	Green	515-525	2.7	3.2	28.5	450		5
TY-X0805BL1 (1.0)-A	2.0*1.25*1.0	Blue	460-470	2.7	3.2	180	450		5
TY-X0805UA1 (1.0)-A	2.0*1.25*1.0	Orange	600-610	1.7	2.2	40	355		5
TY-X0805UY1 (1.0)-A	2.0*1.25*1.0	Yellow	580-595	1.7	2.2	40	355		5
TY-X0805UG1 (1.0)-A	2.0*1.25*1.0	Yellow Green	565-575	1.7	2.2	11.5	90		5
TY-X0805NW1 (1.0)-A	2.0*1.25*1.0	Natural White	4000-4500	2.7	3.3	160	300		5
TY-X0805WW1 (1.0)-A	2.0*1.25*1.0	Warm White	2700-3500	2.7	3.3	160	300		5
TY-X0805PW1 (1.0)-A	2.0*1.25*1.0	Pure white	5000-6500	2.8	3.3	270	410		5
TY-X0805CW1 (1.0)-A	2.0*1.25*1.0	Cool White	6500-12000	2.8	3.3	270	410		5
TY-X0805CW2 (1.0)-A	2.0*1.25*1.0	Cool White	12000-25000	2.8	3.3	270	410		5
TY-X0805CW3 (1.0)-A	2.0*1.25*1.0	Cool White	100000	2.8	3.3	270	410		5
TY-X0805RGB1 (1.0)-A	2.0*1.25*1.0	Red	620-625	1.7	2.2	7.2	280	20	
		Green	512-525	2.7	3.2	28.5	450		
		Blue	460-470	2.7	3.2	180	450		



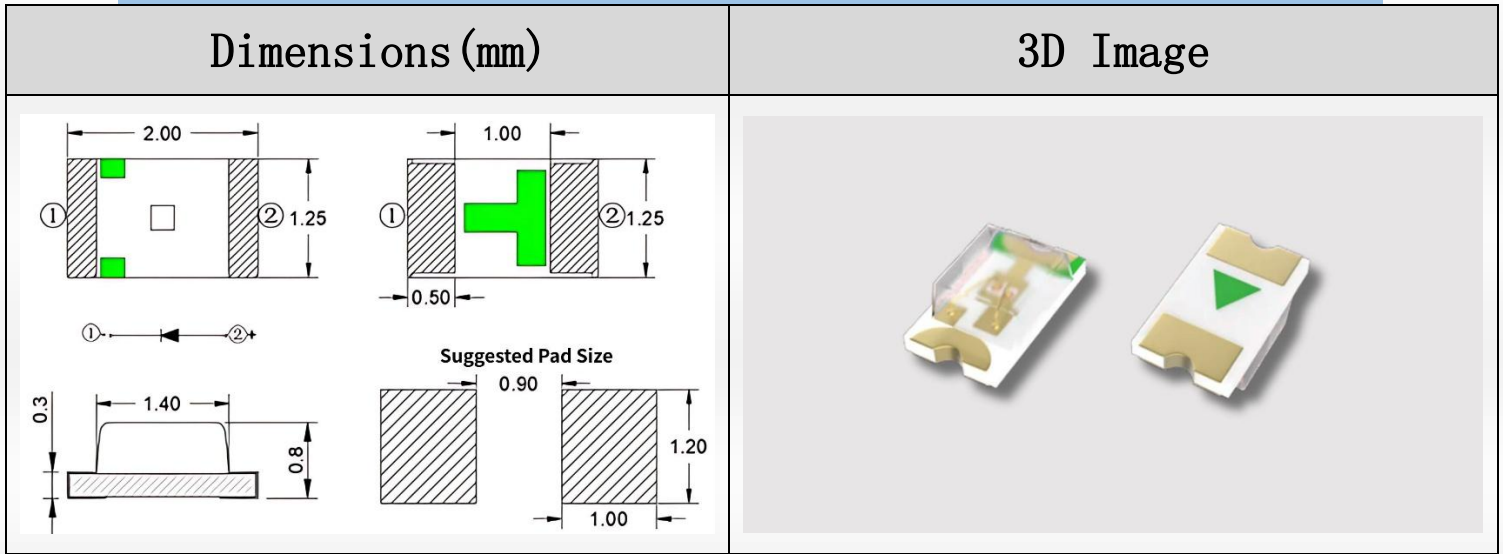
0805 Series (1.20 Thickness) Dome Lens

Dimensions (mm)	3D Image
<p>Technical drawings showing dimensions for the 0805 Series LED package. The top view shows a package with a diameter of 1.00 mm and a total width of 2.00 mm. The side view shows a height of 0.28 mm and a dome lens diameter of 0.50 mm. The suggested pad size is 1.20 mm by 1.20 mm.</p>	<p>3D rendering of the LED package showing the dome lens and the package structure.</p>

Product	Size (L*W*Hmm)	Color	λ d (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2 θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X0805UR1 (1.20)-LS-A	2.0*1.25*1.2	Red	618-640	1.7	2.2	7.2	280	30° / 60°	5
TY-X0805PG1 (1.20)-LS-A	2.0*1.25*1.2	Green	515-525	2.5	3.5	28.5	450		5
TY-X0805BL1 (1.20)-LS-A	2.0*1.25*1.2	Blue	460-470	2.5	3.5	180	450		5
TY-X0805UA1 (1.20)-LS-A	2.0*1.25*1.2	Orange	601-606	1.7	2.2	40	355		5
TY-X0805UY1 (1.20)-LS-A	2.0*1.25*1.2	Yellow	580-595	1.7	2.2	40	355		5
TY-X0805UG1 (1.20)-LS-A	2.0*1.25*1.2	Yellow Green	568-574	1.7	2.2	11.5	90		5
TY-X0805NW1 (1.20)-LS-A	2.0*1.25*1.2	Natural White	4000-4500	2.6	3.3	160	300		5
TY-X0805WW1 (1.20)-LS-A	2.0*1.25*1.2	Warm White	2700-3500	2.6	3.3	160	300		5
TY-X0805PW1 (1.20)-LS-A	2.0*1.25*1.2	Pure white	5000-6500	2.6	3.3	270	410		5
TY-X0805CW1 (1.20)-LS-A	2.0*1.25*1.2	Cool White	6500-12000	2.6	3.3	270	410		5
TY-X0805CW2 (1.20)-LS-A	2.0*1.25*1.2	Cool White	12000-25000	2.6	3.3	270	410		5
TY-X0805CW3 (1.20)-LS-A	2.0*1.25*1.2	Cool White	100000	2.6	3.3	270	410		5
TY-X0805UR1BL1 (1.20)-LS-A	2.0*1.25*1.2	Red	620-625	1.7	1.9	40	280		20
		Blue	460-470	2.7	3.2	180	450		



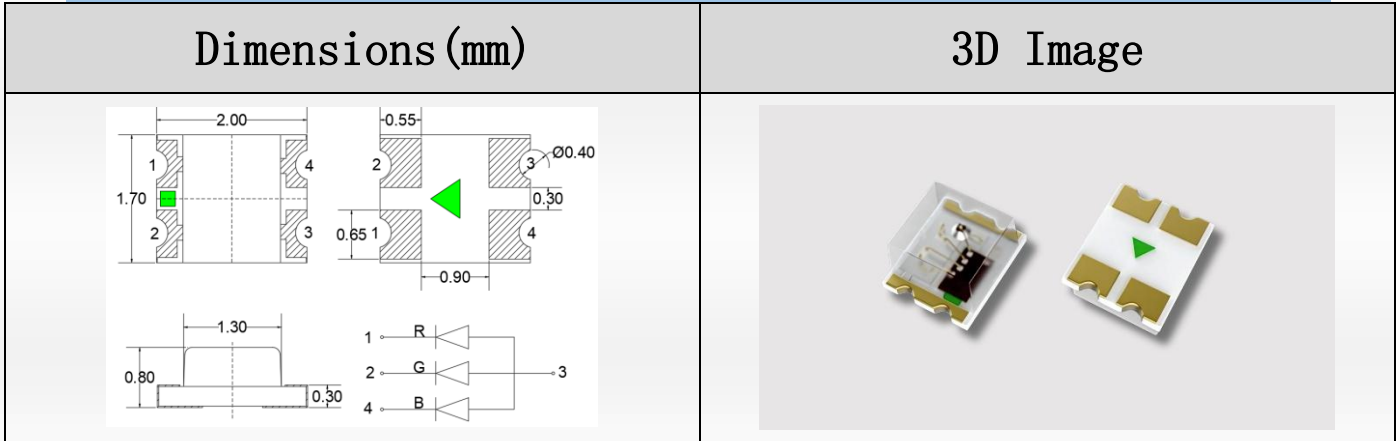
0805 Series (0.80 Thickness)



Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X0805UR1 (0.80) -A	2.0*1.25*0.8	Red	618-640	1.7	2.2	7.2	280	120°	5
TY-X0805PG1 (0.80) -A	2.0*1.25*0.8	Green	512-525	2.7	3.2	28.5	450		5
TY-X0805BL1 (0.80) -A	2.0*1.25*0.8	Blue	460-470	2.7	3.2	180	450		5
TY-X0805UA1 (0.80) -A	2.0*1.25*0.8	Orange	600-610	1.7	2.2	40	355		5
TY-X0805UY1 (0.80) -A	2.0*1.25*0.8	Yellow	580-595	1.7	2.2	40	355		5
TY-X0805UG1 (0.80) -A	2.0*1.25*0.8	Yellow Green	565-575	1.7	2.2	11.5	90		5
TY-X0805NW1 (0.80) -A	2.0*1.25*0.8	Natural White	4000-4500	2.7	3.3	160	300		5
TY-X0805WW1 (0.80) -A	2.0*1.25*0.8	Warm White	2700-3500	2.7	3.3	160	300		5
TY-X0805PW1 (0.80) -A	2.0*1.25*0.8	Pure white	5000-6500	2.8	3.3	270	410		5
TY-X0805CW1 (0.80) -A	2.0*1.25*0.8	Cool White	6500-12000	2.8	3.3	270	410		5
TY-X0805CW2 (0.80) -A	2.0*1.25*0.8	Cool White	12000-25000	2.8	3.3	270	410		5
TY-X0805CW3 (0.80) -A	2.0*1.25*0.8	Cool White	100000	2.8	3.3	270	410		5



0807 Series (0.80 Thickness) (A/IC)



Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X0805RGB1 (0.80)-A	2.0*1.7*0.8	Red	620-625	1.7	2.2	7.2	280	120°	20
		Green	512-515	2.6	3.3	28.5	450		
		Blue	462-464	2.6	3.3	180	450		
TY-X0805BGR1 (0.80)-A	2.0*1.7*0.8	Blue	462-464	2.6	3.3	180	450		
		Green	512-515	2.6	3.3	28.5	450		
		Red	620-625	1.7	2.2	7.2	280		
TY-X0805BGR1 (0.80)-IC-A	2.0*1.7*0.8	Red	620-625	1.7	2.2	7.2	280		
		Green	512-515	2.6	3.3	28.5	450		
		Blue	462-464	2.6	3.3	180	450		



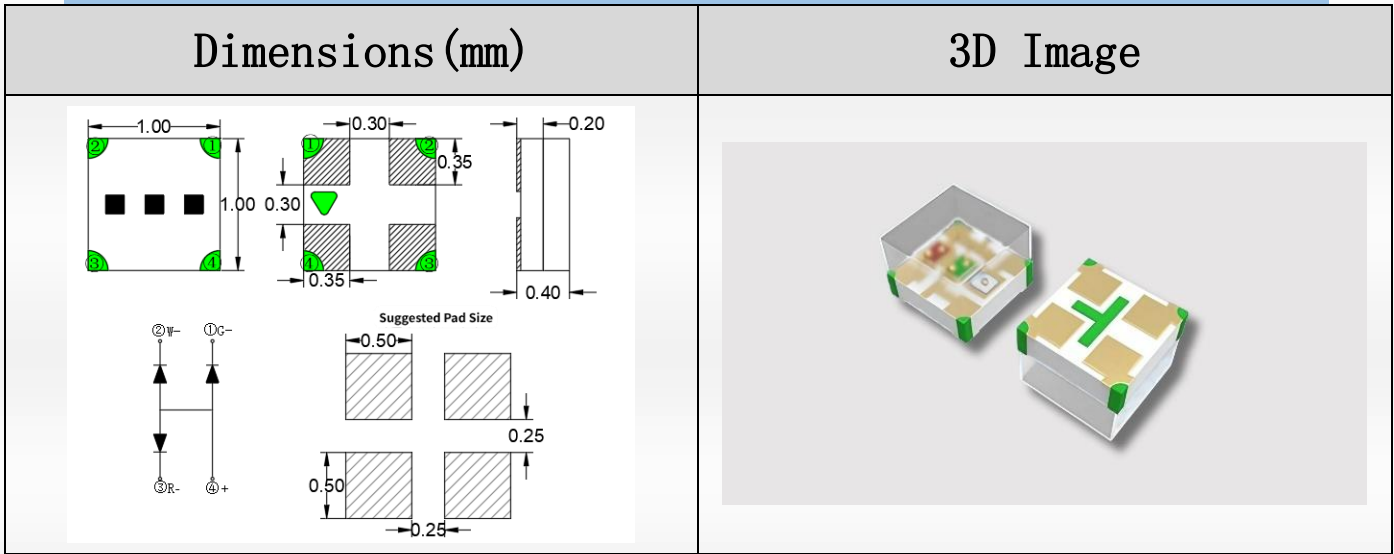
0807 Series (0.80 Thickness) (IC) Multi-Color

Dimensions (mm)	3D Image
<p>The technical drawing shows the chip dimensions: overall length 2.00mm, width 1.7mm, and height 0.80mm. It includes a top view with labels R, G, B, IC, and B, and a side view showing a height of 0.90mm. A suggested pad size diagram shows a 1.00mm x 0.80mm pad with a 0.24mm offset and a 0.75mm width.</p>	<p>A 3D perspective view of the LED chip, showing its rectangular shape and the central die area.</p>

Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Operating Voltage VF	IV (mcd)		Viewing Angle 2θ 1/2 (deg)	IF (mA)
					Min	Max		
TY- X0807RGB1 (0.80) - A-IC 1818	2.0*1.7*0.8	Red	620-625	5	75	130	120°	5
		Green	520-535	5	200	300		
		Blue	465-475	5	50	100		
TY- X0807RGB1 (0.80) - A-IC 1816	2.0*1.7*0.8	Red	620-625	5	100	220		12
		Green	520-535	5	280	440		
		Blue	465-475	5	75	130		



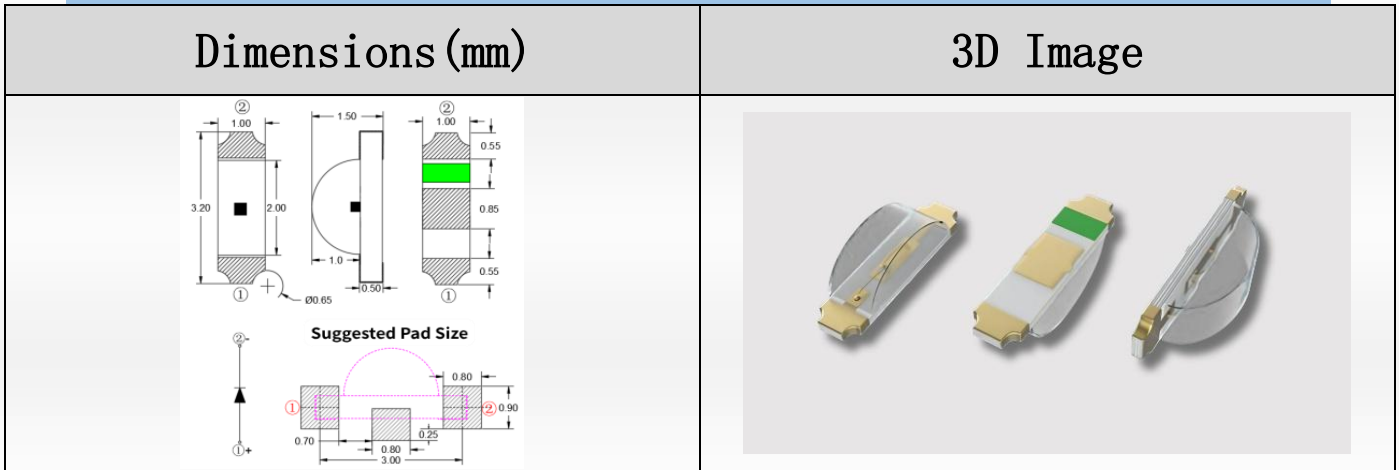
1010 Series (0.40 Thickness)



Product	Size (L*W*Hmm)	Color	λ d (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X0404PG1 (0.40)-A	1.0*1.0*0.4	Green	515-535	2.7	3.2	28.5	450	120°	5
TY-X0404UR1UG1 (0.40)-A	1.0*1.0*0.4	Red	620-630	1.7	2.2	7.2	280		5
		Yellow Green	565-577	1.7	2.2	25	55		
TY-X0404UA1PG1 (0.40)-A	1.0*1.0*0.4	Orange	601-610	1.6	2.1	40	355		5
		Green	512-525	2.7	3.2	28.5	450		
TY-X0404PG1WH1 (0.40)-A	1.0*1.0*0.4	White	X:0.27 Y:0.22	2.7	3.5	270	410		5
TY-X0404UR1BL1 (0.40)-A	1.0*1.0*0.4	Red	620-630	1.7	2.2	7.2	280		5
		Blue	461-465	2.8	3.3	180	150		
TY-X0404RGB1 (0.40)-A	1.0*1.0*0.4	Red	620-625	1.7	2.2	7.2	280		5
		Green	512-525	2.7	3.2	28.5	450		
TY-X0404RBG1 (0.40)-A	1.0*1.0*0.4	Blue	461-465	2.8	3.3	180	450		5
		Red	620-625	1.7	2.2	7.2	280		
TY-X0404RGB1 (0.40)-A	1.0*1.0*0.4	Green	512-525	2.7	3.2	28.5	450		20
		Red	620-625	1.7	2.2	7.2	280		
		Blue	461-465	2.8	3.3	180	450		



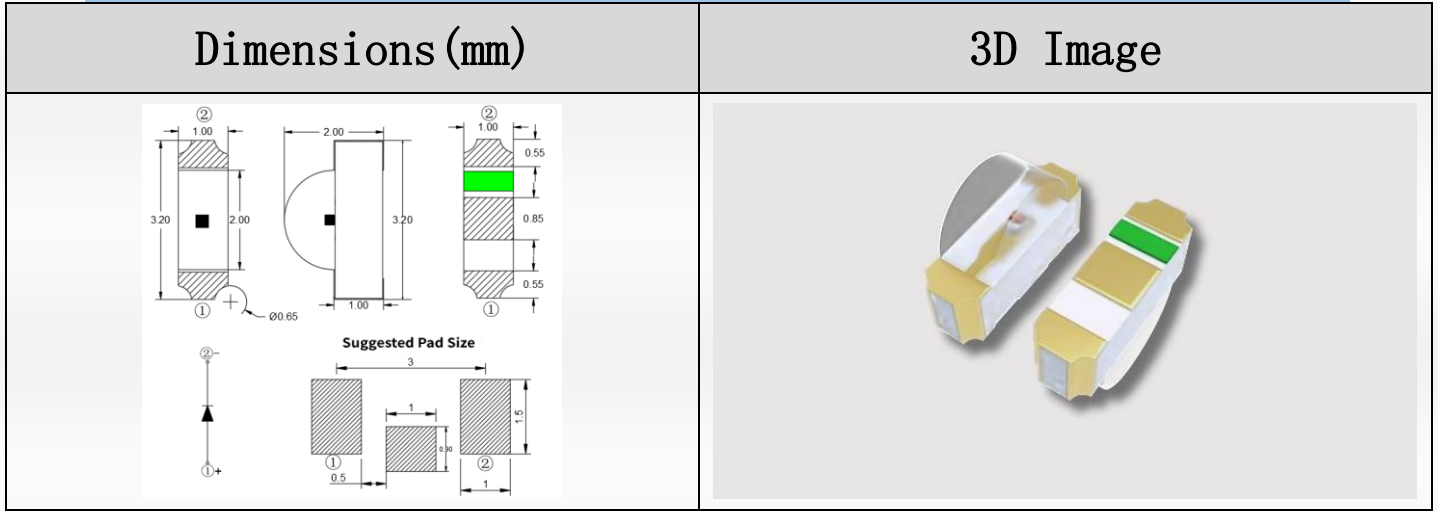
1204 Series (Side View) (1.50 Thickness)



Product	Size (L*W*Hmm)	Color	λ d (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-XSV1204UR1 (1.50)-A	3.2*1.0*1.5	Red	615-630	1.7	2.2	7.2	280	120°	5
TY-XSV1204PG1 (1.50)-A	3.2*1.0*1.5	Green	512-525	2.7	3.5	28.5	450		5
TY-XSV1204BL1 (1.50)-A	3.2*1.0*1.5	Blue	460-470	2.7	3.5	180	450		5
TY-XSV1204UA1 (1.50)-A	3.2*1.0*1.5	Orange	600-610	1.7	2.2	40	355		5
TY-XSV1204UY1 (1.50)-A	3.2*1.0*1.5	Yellow	580-595	1.7	2.2	40	355		5
TY-XSV1204UG1 (1.50)-A	3.2*1.0*1.5	Yellow Green	565-575	1.7	2.3	11.5	90		5
TY-XSV1204NW1 (1.50)-A	3.2*1.0*1.5	Natural White	4000-4500	2.6	3.2	160	300		5
TY-XSV1204WW1 (1.50)-A	3.2*1.0*1.5	Warm White	2700-3500	2.6	3.2	160	300		5
TY-XSV1204PW1 (1.50)-A	3.2*1.0*1.5	Pure white	5000-6500	2.6	3.2	270	410		5
TY-XSV1204CW1 (1.50)-A	3.2*1.0*1.5	Cool White	6500-12000	2.6	3.2	270	410		5
TY-XSV1204CW2 (1.50)-A	3.2*1.0*1.5	Cool White	12000-25000	2.6	3.2	270	410		5
TY-XSV1204CW3 (1.50)-A	3.2*1.0*1.5	Cool White	100000	2.6	3.2	270	410		5
TY-XSV1204PG1BL1 (1.50)-A	3.2*1.0*1.5	Green	520-525	2.8	3.2	120	180		20
		Blue	466-470	2.8	3.2	700	800		
TY-XSV1204UR1WH1 (1.50)-A	3.2*1.0*1.5	Red	620-630	1.7	2.1	40	280	20	
		White	2700-9000	2.6	3.2	140	210		
TY-XSV1204UY1UG1 (1.50)-A	3.2*1.0*1.5	Yellow	580-595	1.7	2.2	40	355	20	
		Yellow Green	565-575	1.7	2.3	11.5	90		
TY-XSV1204RGB1 (1.50)-A	3.2*1.0*1.5	Red	620-630	1.7	2.2	40	280	20	
		Green	512-525	2.7	3.5	28.5	450		
		Blue	460-470	2.7	3.5	180	450		



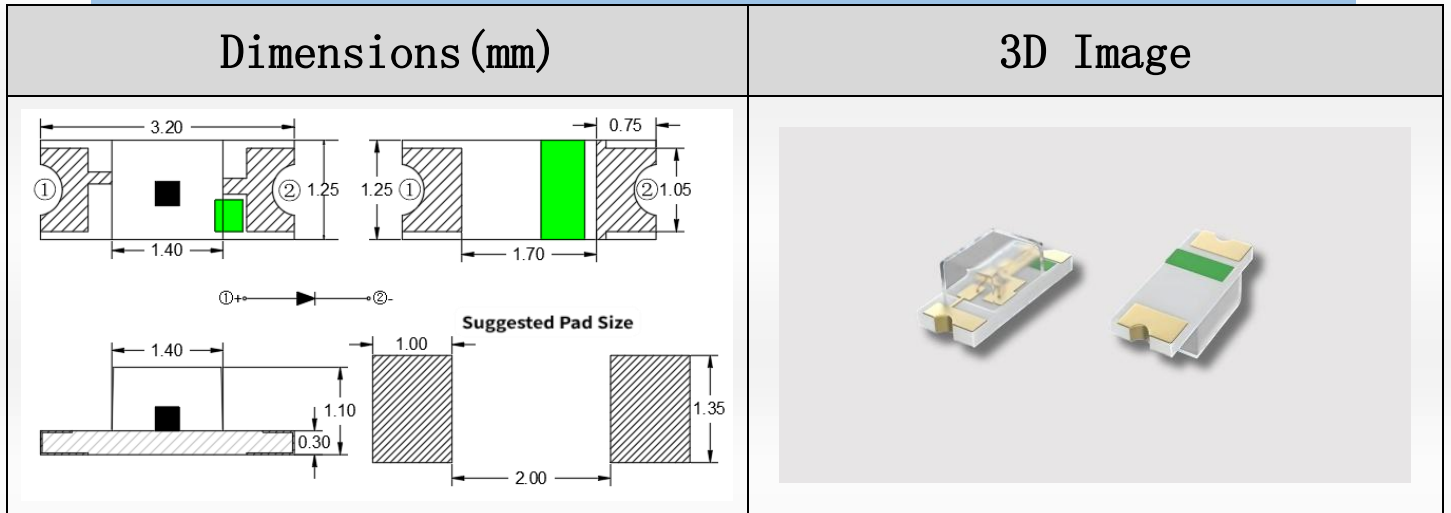
1204 Series (Side View) (2.00 Thickness)



Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-XSV1204UR1 (2.0) -A	3.2*1.0*2.0	Red	615-630	1.7	2.2	7.2	280	120°	5
TY-XSV1204PG1 (2.0) -A	3.2*1.0*2.0	Green	512-525	2.7	3.5	28.5	450		5
TY-XSV1204BL1 (2.0) -A	3.2*1.0*2.0	Blue	460-470	2.7	3.5	180	450		5
TY-XSV1204UA1 (2.0) -A	3.2*1.0*2.0	Orange	600-610	1.7	2.2	40	355		5
TY-XSV1204UY1 (2.0) -A	3.2*1.0*2.0	Yellow	580-595	1.7	2.2	40	355		5
TY-XSV1204UG1 (2.0) -A	3.2*1.0*2.0	Yellow Green	565-575	1.7	2.3	11.5	90		5
TY-XSV1204NW1 (2.0) -A	3.2*1.0*2.0	Natural White	4000-4500	2.6	3.2	160	300		5
TY-XSV1204WW1 (2.0) -A	3.2*1.0*2.0	Warm White	2700-3500	2.6	3.2	160	300		5
TY-XSV1204PW1 (2.0) -A	3.2*1.0*2.0	Pure white	5000-6500	2.6	3.2	270	410		5
TY-XSV1204CW1 (2.0) -A	3.2*1.0*2.0	Cool White	6500-12000	2.6	3.2	270	410		5
TY-XSV1204CW2 (2.0) -A	3.2*1.0*2.0	Cool White	12000-25000	2.6	3.2	270	410		5
TY-XSV1204CW3 (2.0) -A	3.2*1.0*2.0	Cool White	100000	2.6	3.2	270	410		5
TY-XSV1204UA1PG1 (2.0) -A	3.2*1.0*2.0	Orange	600-610	1.7	2.2	40	355	20	
		Green	512-525	2.7	3.5	28.5	450		
TY-XSV1204UR1BL1 (2.0) -A	3.2*1.0*2.0	Red	620-630	1.7	2.2	40	280	20	
		Blue	460-470	2.7	3.5	180	450		
TY-XSV1204RGB1 (2.0) -A	3.2*1.0*2.0	Red	620-630	1.7	2.2	40	280	20	
		Green	512-525	2.7	3.5	28.5	450		
		Blue	460-470	2.7	3.5	180	450		



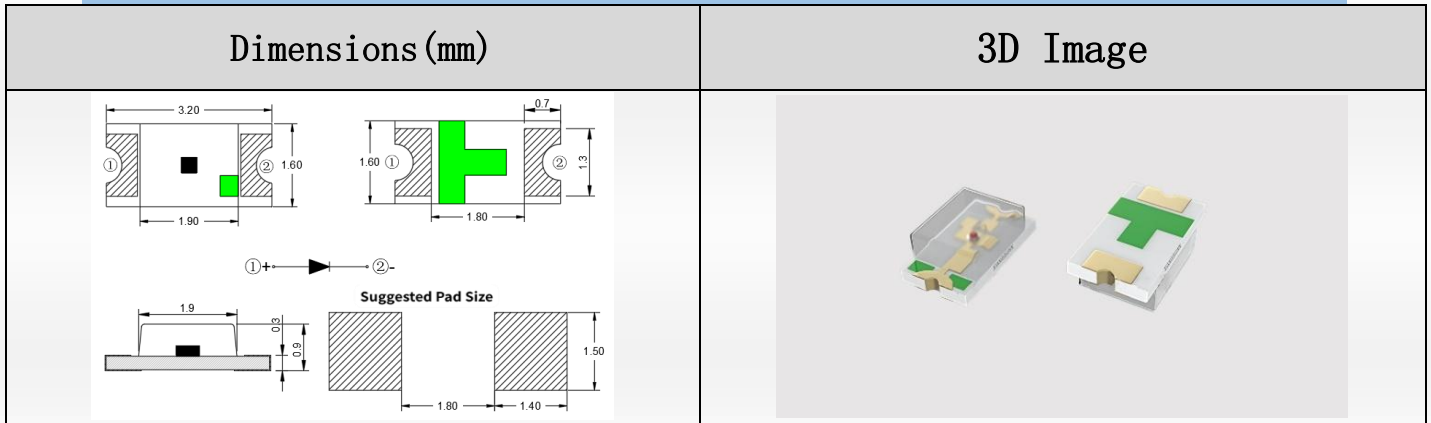
1205 Series (1.10 Thickness)



Product	Size (L*W*Hmm)	Color	λ_d (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2 θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X1205UR1 (1.10)-A-R	3.2*1.25*1.1	Red	615-640	1.7	2.2	7.2	280	120°	5
TY-X1205PG1 (1.10)-A-R	3.2*1.25*1.1	Green	512-525	2.7	3.5	28.5	450		5
TY-X1205BL1 (1.10)-A-R	3.2*1.25*1.1	Blue	460-470	2.7	3.5	180	450		5
TY-X1205UA1 (1.10)-A-R	3.2*1.25*1.1	Orange	600-610	1.7	2.2	40	355		5
TY-X1205UY1 (1.10)-A-R	3.2*1.25*1.1	Yellow	580-595	1.7	2.2	40	355		5
TY-X1205UG1 (1.10)-A-R	3.2*1.25*1.1	Yellow Green	565-575	1.7	2.3	11.5	90		5
TY-X1205NW1 (1.10)-A-R	3.2*1.25*1.1	Natural White	4000-4500	2.6	3.2	160	300		5
TY-X1205WW1 (1.10)-A-R	3.2*1.25*1.1	Warm White	2700-3500	2.6	3.2	160	300		5
TY-X1205PW1 (1.10)-A-R	3.2*1.25*1.1	Pure white	5000-6500	2.6	3.2	270	410		5
TY-X1205CW1 (1.10)-A-R	3.2*1.25*1.1	Cool White	6500-12000	2.6	3.2	270	410		5
TY-X1205CW2 (1.10)-A-R	3.2*1.25*1.1	Cool White	12000-25000	2.6	3.2	270	410		5
TY-X1205CW3 (1.10)-A-R	3.2*1.25*1.1	Cool White	100000	2.6	3.2	270	410		5
TY-X1205UR1BL1 (1.10)-A-R	3.2*1.25*1.1	Red	620-630	1.7	2.2	40	280		20
		Blue	460-470	2.7	3.5	180	450		
TY-X1205UG1BL (1.10)-A-R	3.2*1.25*1.1	Blue	460-470	2.7	3.5	180	450	20	
		Yellow Green	565-575	1.7	2.3	40	1120		
TY-X1205RGB1 (1.10)-A-R	3.2*1.25*1.1	Red	620-630	1.7	2.2	40	280	20	
		Green	512-525	2.7	3.5	28.5	450		
		Blue	460-470	2.7	3.5	180	450		



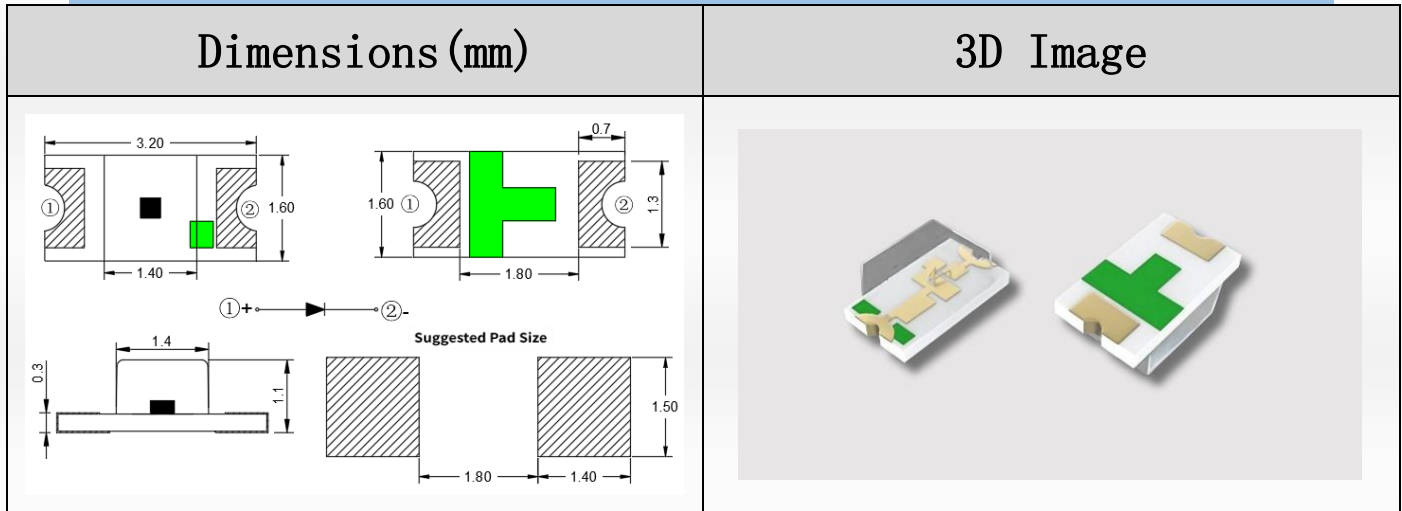
1206 Series (0.90 Thickness)



Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle $2\theta 1/2$ (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X1206UR1 (0.90) -A	3.2*1.6*0.9	Red	615-640	1.7	2.2	7.2	280	120°	5
TY-X1206PG1 (0.90) -A	3.2*1.6*0.9	Green	512-525	2.7	3.5	28.5	450		5
TY-X1206BL1 (0.90) -A	3.2*1.6*0.9	Blue	460-470	2.7	3.5	180	450		5
TY-X1206UA1 (0.90) -A	3.2*1.6*0.9	Orange	600-610	1.7	2.2	40	355		5
TY-X1206UY1 (0.90) -A	3.2*1.6*0.9	Yellow	580-595	1.7	2.2	40	355		5
TY-X1206UG1 (0.90) -A	3.2*1.6*0.9	Yellow Green	565-575	1.7	2.3	11.5	90		5
TY-X1206NW1 (0.90) -A	3.2*1.6*0.9	Natural White	4000-4500	2.5	3.5	270	400		5
TY-X1206WW1 (0.90) -A	3.2*1.6*0.9	Warm White	2700-3500	2.5	3.5	270	400		5
TY-X1206PW1 (0.90) -A	3.2*1.6*0.9	Pure white	5000-6500	2.5	3.5	270	400		5
TY-X1206CW1 (0.90) -A	3.2*1.6*0.9	Cool White	6500-12000	2.5	3.5	270	400		
TY-X1206CW2 (0.90) -A	3.2*1.6*0.9	Cool White	12000-25000	2.5	3.5	270	400		
TY-X1206CW3 (0.90) -A	3.2*1.6*0.9	Cool White	100000	2.5	3.5	270	400		
TY-X1206CW1CW1 (0.90) -A	3.2*1.6*0.9	White	X:0.27 Y:0.22	2.5	3.5	270	400		20
		White	X:0.27 Y:0.22	2.5	3.5	270	400		
TY-X1206UR1BL1 (0.90) -A	3.2*1.6*0.9	Red	620-625	1.7	2.2	7.2	200	20	
		Blue	460-470	2.7	3.2	180	450		
TY-X1206UA1PG1 (0.90) -A	3.2*1.6*0.9	Orange	601-607	1.7	2.2	40	355	20	
		Green	512-525	2.7	3.2	28.5	350		
TY-X1206RGB1 (0.90) -A	3.2*1.6*0.9	Red	620-625	1.7	2.2	11.5	200	20	
		Green	512-525	2.7	3.2	28.5	355		
		Blue	460-470	2.7	3.2	180	450		



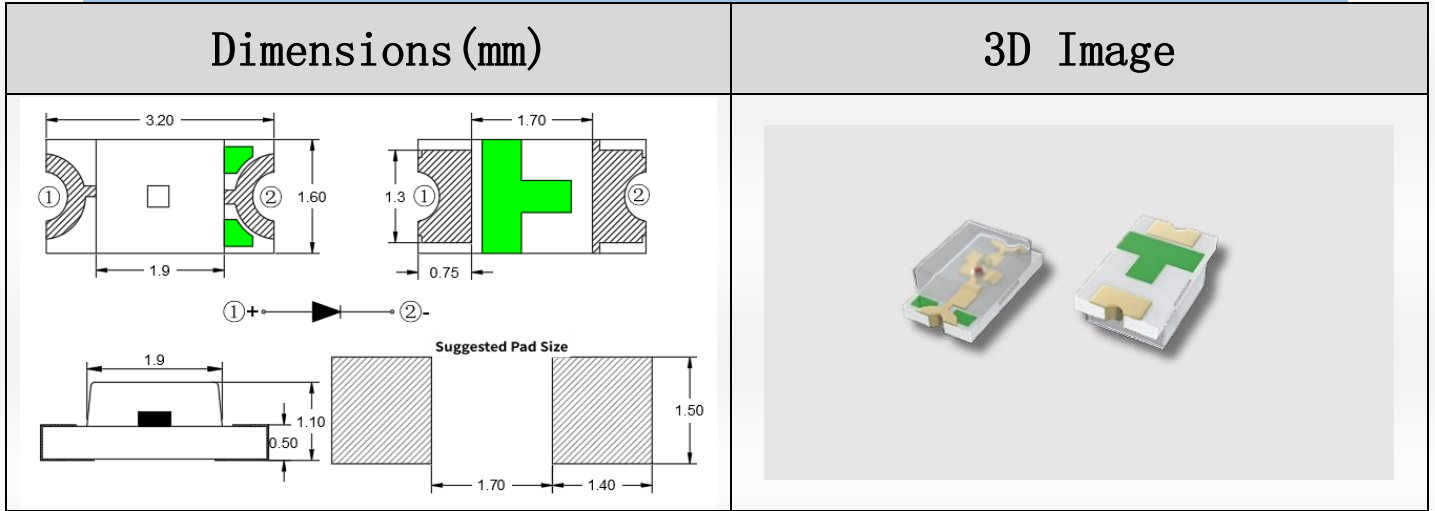
1206 Series (1.4 Cover Wide) (1.10 Thickness)



Product	Size (L*W*Hmm)	Color	λ d (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X1206UR1 (1.10)-A-R	3.2*1.6**1.1	Red	618-640	1.7	2.2	7.2	280	120°	5
TY-X1206PG1 (1.10)-A-R	3.2*1.6**1.1	Green	515-525	2.7	3.5	28.5	450		5
TY-X1206BL1 (1.10)-A-R	3.2*1.6**1.1	Blue	460-470	2.7	3.5	180	450		5
TY-X1206UA1 (1.10)-A-R	3.2*1.6**1.1	Orange	601-606	1.7	2.2	40	355		5
TY-X1206UY1 (1.10)-A-R	3.2*1.6**1.1	Yellow	580-595	1.7	2.2	40	355		5
TY-X1206UG1 (1.10)-A-R	3.2*1.6**1.1	Yellow Green	568-574	1.7	2.3	11.5	90		5
TY-X1206NW1 (1.10)-A-R	3.2*1.6**1.1	Natural White	X:0.27 Y: 0.22	2.5	3.5	270	410		5
TY-X1206UR1PG1 (1.10)-A-R	3.2*1.6**1.1	Red	620-625	1.7	2.2	40	280		20
		Green	512-525	2.7	3.5	28.5	450		
TY-X1206RGB1 (1.10)-A-R	3.2*1.6**1.1	Red	620-625	1.7	2.2	40	280		20
		Green	512-525	2.7	3.5	28.5	450		
		Blue	460-470	2.7	3.5	180	450		



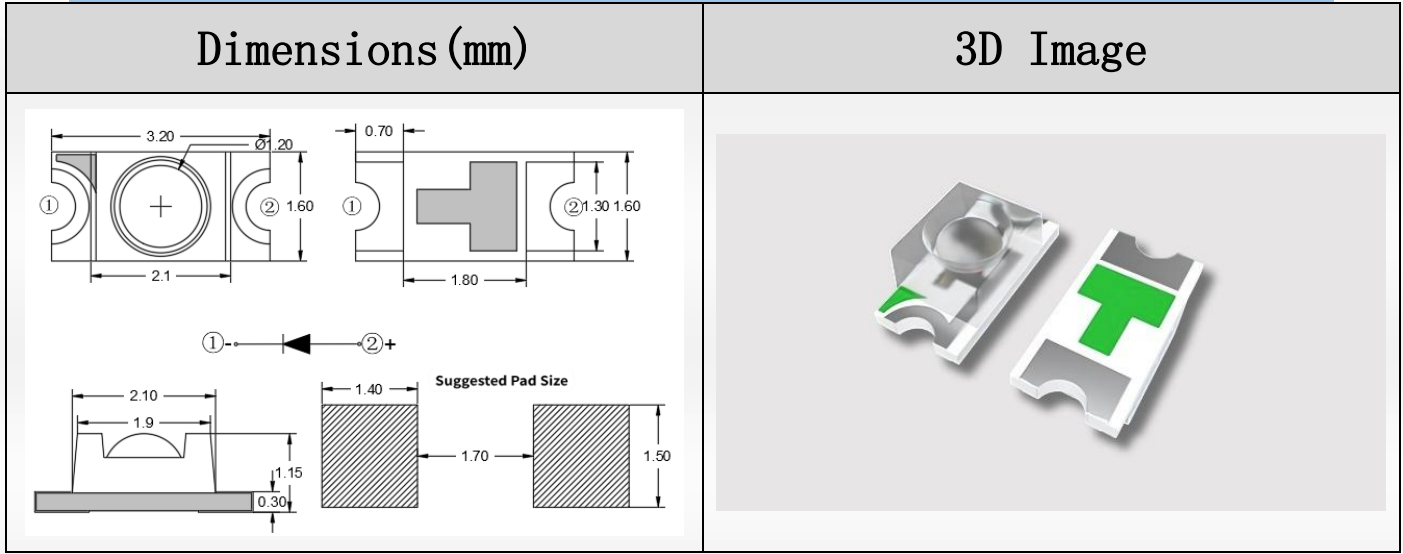
1206 Series (1.10 Thickness)



Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle $2\theta 1/2$ (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X1206UR1 (1.10) -A	3.2*1.6*1.1	Red	618-640	1.7	2.2	7.2	280	120°	5
TY-X1206PG1 (1.10) -A	3.2*1.6*1.1	Green	515-525	2.7	3.5	28.5	450		5
TY-X1206BL1 (1.10) -A	3.2*1.6*1.1	Blue	460-470	2.7	3.5	180	450		5
TY-X1206UA1 (1.10) -A	3.2*1.6*1.1	Orange	601-606	1.7	2.2	40	355		5
TY-X1206UY1 (1.10) -A	3.2*1.6*1.1	Yellow	580-595	1.7	2.2	40	355		5
TY-X1206UG1 (1.10) -A	3.2*1.6*1.1	Yellow Green	568-574	1.7	2.3	11.5	90		5
TY-X1206CW1 (1.10) -A	3.2*1.6*1.1	Cold White	X:0.27 Y:0.22	2.5	3.5	270	410		5



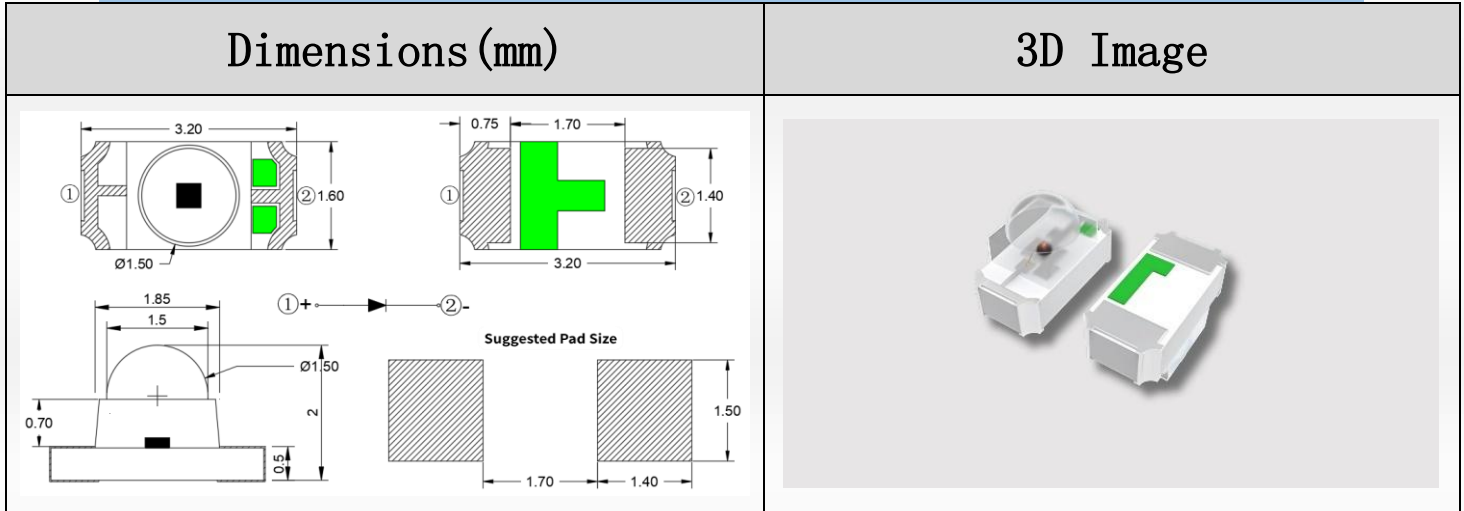
1206 Series – Dome Lens (1.15 Thickness)



Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2 θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X1206UR1(1.15)-LS1-A	3.2*1.6*1.15	Red	618-640	1.7	2.2	7.2	280	30° / 60°	5
TY-X1206PG1(1.15)-LS1-A	3.2*1.6*1.15	Green	515-525	2.7	3.5	28.5	450		5
TY-X1206BL1(1.15)-LS1-A	3.2*1.6*1.15	Blue	460-470	2.7	3.5	180	450		5
TY-X1206UA1(1.15)-LS1-A	3.2*1.6*1.15	Orange	601-606	1.7	2.2	40	355		5
TY-X1206UY1(1.15)-LS1-A	3.2*1.6*1.15	Yellow	580-595	1.7	2.2	40	355		5
TY-X1206UG1(1.15)-LS1-A	3.2*1.6*1.15	Yellow Green	568-574	1.7	2.3	11.5	90		5
TY-X1206CW1(1.15)-LS1-A	3.2*1.6*1.15	Cold White	X:0.27 Y: 0.22	2.5	3.5	270	410		5
TY-X1206BW1(1.15)-LS1-A	3.2*1.6*1.15	Ice Blue	X:0.15 Y: 0.18	2.5	3.5	15	300		5



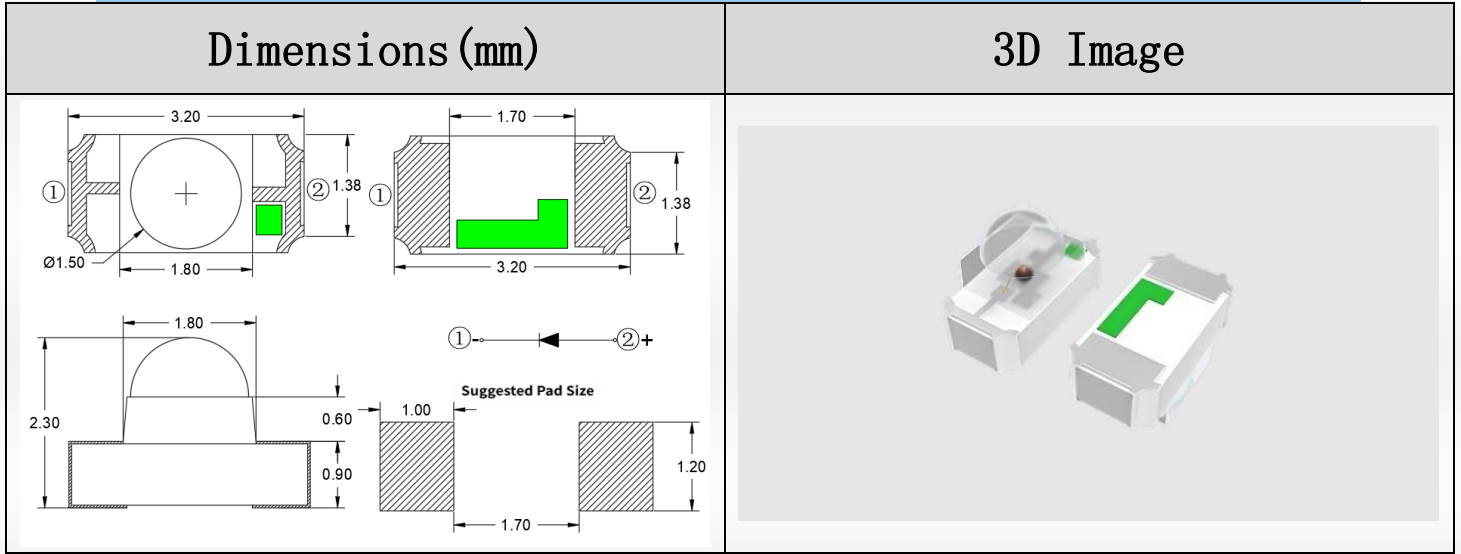
1206 Series – Dome Lens (2.00 Thickness)



Product	Size (L*W*Hmm)	Color	λ d (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2 θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X1206UR1(2.0)-LS-A	3.2*1.6*2.0	Red	618-640	1.7	2.2	7.2	280	30/ 60°	5
TY-X1206PG1(2.0)-LS-A	3.2*1.6*2.0	Green	515-525	2.7	3.5	28.5	450		5
TY-X1206BL1(2.0)-LS-A	3.2*1.6*2.0	Blue	460-470	2.7	3.5	180	450		5
TY-X1206UA1(2.0)-LS-A	3.2*1.6*2.0	Orange	601-606	1.7	2.2	40	355		5
TY-X1206UY1(2.0)-LS-A	3.2*1.6*2.0	Yellow	580-595	1.7	2.2	40	355		5
TY-X1206UG1(2.0)-LS-A	3.2*1.6*2.0	Yellow Green	568-574	1.7	2.3	11.5	90		5
TY-X1206CW1(2.0)-LS-A	3.2*1.6*1.15	Cold White	X:0.27 Y: 0.22	2.5	3.5	270	410		5



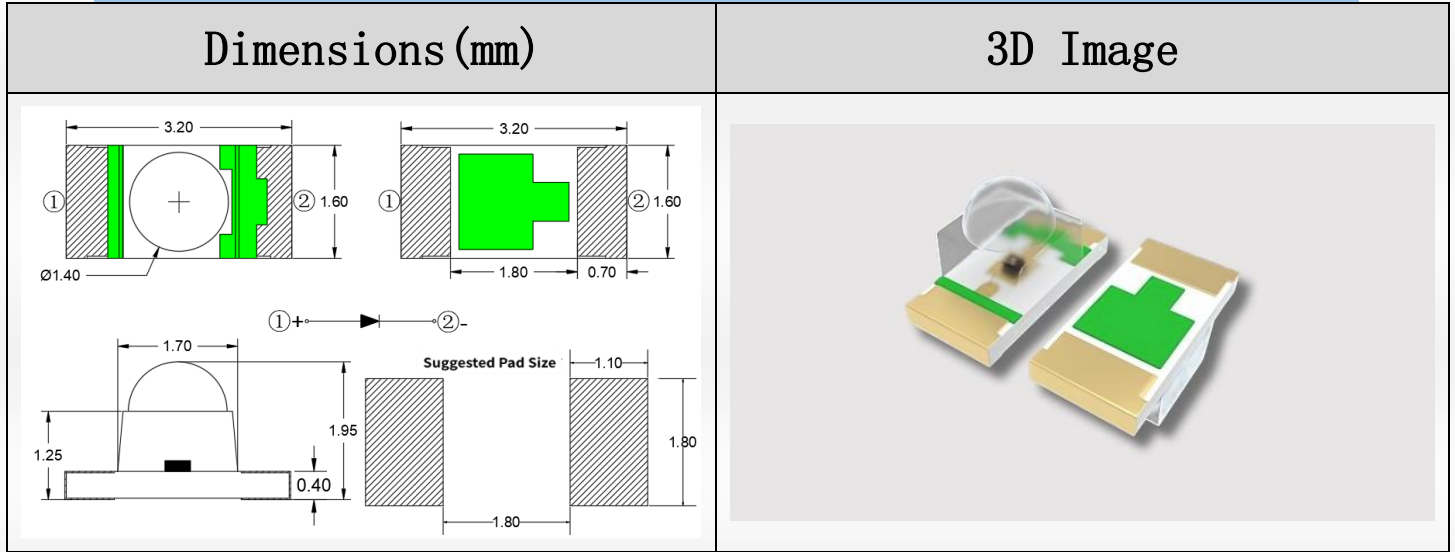
1206 Series Dome Lens (2.35 Thickness)



Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X1206UR1(2.35)-LS-A	3.2*1.6*2.35	Red	615-640	1.7	2.2	7.2	280	30/ 60°	5
TY-X1206PG1(2.35)-LS-A	3.2*1.6*2.35	Green	515-525	2.7	3.5	28.5	450		5
TY-X1206BL1(2.35)-LS-A	3.2*1.6*2.35	Blue	460-470	2.7	3.5	180	450		5
TY-X1206UA1(2.35)-LS-A	3.2*1.6*2.35	Orange	600-610	1.7	2.2	40	355		5
TY-X1206UY1(2.35)-LS-A	3.2*1.6*2.35	Yellow	580-595	1.7	2.2	40	355		5
TY-X1206UG1(2.35)-LS-A	3.2*1.6*2.35	Yellow Green	565-575	1.7	2.3	11.5	90		5
TY-X1206CW1(2.35)-LS-A	3.2*1.6*1.15	Cold White	X:0.27 Y : 0.22	2.5	3.5	270	410		5



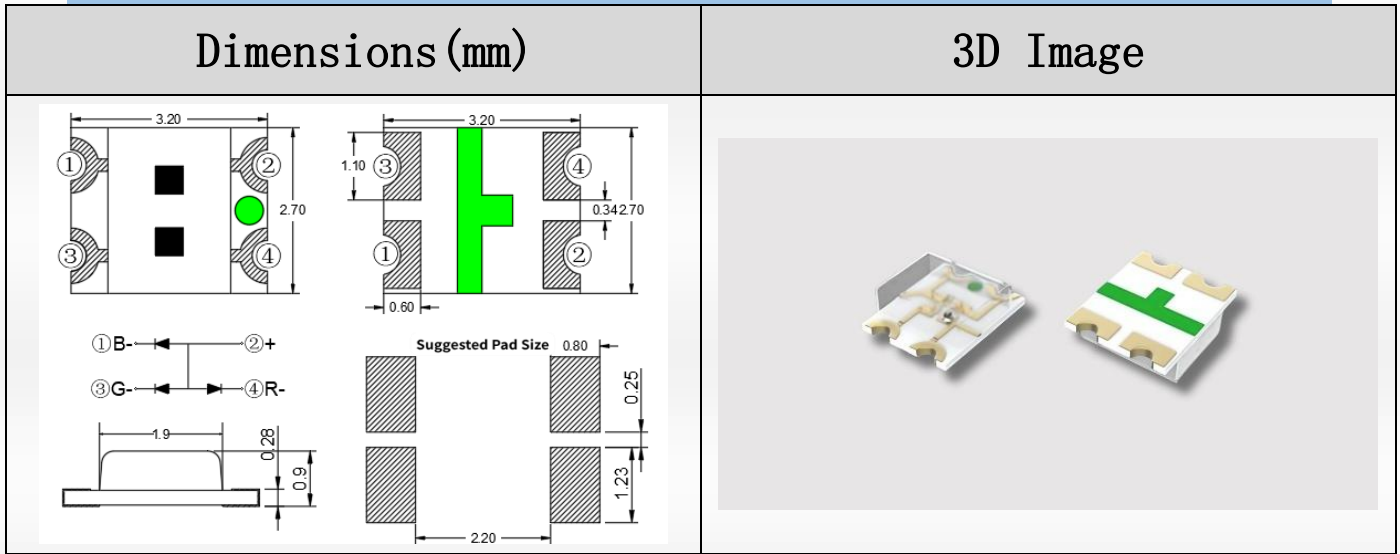
1206 Series Dome Lens (1.95 Thickness)



Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X1206UR1(1.95)-LS-A-H	3.2*1.6*1.95	Red	615-640	1.7	2.2	7.2	280	30/ 60°	5
TY-X1206PG1(1.95)-LS-A-H	3.2*1.6*1.95	Green	515-525	2.7	3.5	28.5	450		5
TY-X1206BL1(1.95)-LS-A-H	3.2*1.6*1.95	Blue	460-470	2.7	3.5	180	450		5
TY-X1206UA1(1.95)-LS-A-H	3.2*1.6*1.95	Orange	600-610	1.7	2.2	40	355		5
TY-X1206UY1(1.95)-LS-A-H	3.2*1.6*1.95	Yellow	580-595	1.7	2.2	40	355		5
TY-X1206UG1(1.95)-LS-A-H	3.2*1.6*1.95	Yellow Green	565-575	1.7	2.3	11.5	90		5
TY-X1206CW1(1.95)-LS-A-H	3.2*1.6*1.95	Cold White	X:0.27 Y : 0.22	2.5	3.5	270	410		5



1209 Series (0.90 Thickness)



Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X1209UR1PG1(0.90)-A	3.2*2.7*0.9	Red	615-635	1.7	2.2	7.2	280	120°	20
		Green	515-525	2.7	3.5	28.5	450		
TY-X1209UY1UG1(0.90)-A	3.2*2.7*0.9	Yellow	580-595	1.7	2.2	40	355		20
		Yellow Green	565-575	2.7	3.5	11.5	90		
TY-X1209UA1BL1(0.90)-A	3.2*2.7*0.9	Orange	601-610	1.7	2.2	40	355		20
		Blue	460-470	2.7	3.5	180	450		
TY-X1209RGB1(0.90)-A	3.2*2.7*0.9	Red	615-635	1.7	2.2	7.2	280		20
		Green	515-525	2.7	3.5	28.5	450		
		Blue	460-470	2.7	3.5	180	450		



1209 Series (1.10 Thickness)

Dimensions (mm)	3D Image
<p>Technical drawings showing dimensions (mm) and suggested pad sizes for the LED package. Dimensions include 3.20, 2.70, 1.9, 1.10, 0.60, 2.00, 0.34, 0.80, 0.25, and 1.23. Suggested pad sizes are 0.80 by 0.25 mm.</p>	<p>3D perspective view of the LED package showing the internal structure and the green LED chip.</p>

Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X1209UR1PG1(1.10)-A	3.2*2.7*1.1	Red	620-630	1.7	2.2	7.2	280	120°	20
		Green	512-525	2.7	3.5	28.5	450		
TY-X1209UR1UG1(1.10)-A	3.2*2.7*1.1	Red	620-630	1.7	2.2	7.2	280		20
		Yellow	565-575	2.7	3.5	11.5	90		
TY-X1209UR1BL1(1.10)-A	3.2*2.7*1.1	Blue		460-470	2.7	3.5	180		450
		Red	620-630	1.7	2.2	7.2	280		
TY-X1209RGB1(1.10)-A	3.2*2.7*1.1	Red	620-630	1.7	2.2	7.2	280		20
		Green	512-525	2.7	3.5	28.5	450		
		Blue	460-470	2.7	3.5	180	450		
TY-X1209BGR1(1.10)-A	3.2*2.7*1.1	Blue	460-470	2.7	3.5	180	450		20
		Green	512-525	2.7	3.5	28.5	450		
		Red	620-630	1.7	2.2	7.2	280		



0606 Series (0.80 Thickness)

Dimensions (mm)	3D Image
<p>The technical drawing shows the top and side views of the LED package. The top view is a square with side length 1.50 mm. The height of the package is 0.80 mm. The drawing includes dimensions for the chip (0.57 mm x 0.36 mm), the pad layout (0.65 mm x 0.35 mm), and the suggested pad size (0.65 mm x 0.35 mm). The package is labeled with 1R-, 2G-, 3+, and 4B- terminals.</p>	<p>A 3D perspective view of the LED package, showing its square shape and the central chip area.</p>

Product	Size (L*W*Hmm)	Color	λ d (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2 θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X0606RGB3(0.80)-A	1.5*1.5*0.8	Red	615-634	1.7	2.2	11.5	28	120°	20
		Green	515-525	2.7	3.5	200	400		
		Blue	460-470	2.7	3.5	80	150		



0606 Series Multi-Color (0.80 Thickness) (IC)

Dimensions (mm)	3D Image
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Front View</p> </div> <div style="text-align: center;"> <p>Perspective View</p> </div> </div> <div style="margin-top: 10px;"> <p>Suggested Pad Size</p> </div> <div style="margin-top: 10px;"> <p>① DO ② VDD ③ GND ④ DI</p> </div>	

Product	Size (L*W*Hmm)	Color	λd (nm) / CCT(K) / CIE(X, Y)	Operating Voltage V _f (V)	IV (mcd)		Viewing Angle 2θ 1/2 (deg)	IF (mA)
					Min	Max		
TY-X0606RGB3(0.80)-A-IC1818	1.5*1.5*0.8	Red	620-625	5	75	130	120°	5
		Green	520-535	5	200	300		
		Blue	460-475	5	50	100		
TY-X0606RGB3(0.80)-A-IC1816	1.5*1.5*0.8	Red	620-625	5	100	220	120°	12
		Green	520-535	5	280	440		
		Blue	460-475	5	75	130		



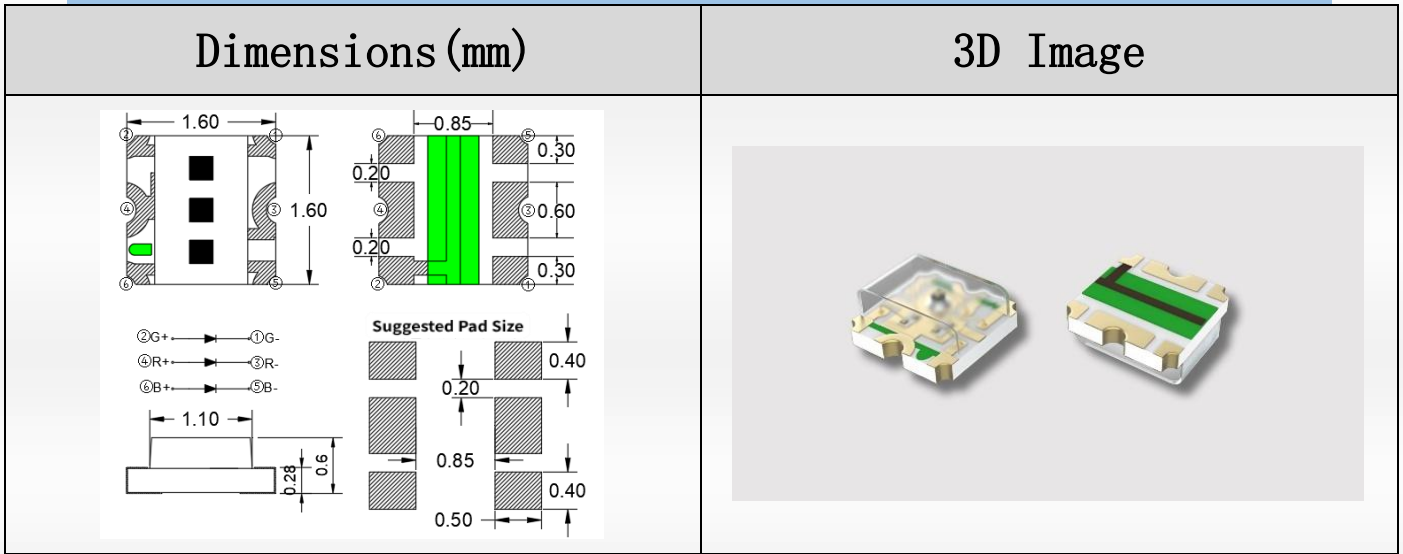
0606 Series (0.40 Thickness)

Dimensions (mm)	3D Image
<p>The technical drawing shows the package dimensions: overall length 1.60mm, overall width 1.60mm, and thickness 0.40mm. It also shows the internal pad layout with dimensions like 0.85mm, 0.20mm, 0.30mm, 0.60mm, 1.10mm, and 0.2mm. A 'Suggested Pad Size' diagram shows a 0.85mm wide pad with 0.20mm spacing and 0.40mm height. Pin connections are labeled ②G+, ①G-, ④R+, ③R-, ⑥B+, and ⑤B-.</p>	

Product	Size (L*W*Hmm)	Color	λ d (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2 θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X0606RGB1 (0.40)-A-P6	1.6*1.6*0.4	Blue	460-470	2.7	3.5	80	150	120°	20
		Red	620-630	1.7	2.2	11.5	28		
		Green	512-525	2.7	3.5	200	400		



0606 Series (0.40 Thickness)



Product	Size (L*W*Hmm)	Color	λ d (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2 θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X0606BRG1 (0.40)-A-P6	1.6*1.6*0.4	Blue	460-470	2.7	3.5	80	150	120°	20
		Red	620-630	1.7	2.2	11.5	28		
		Green	512-525	2.7	3.5	200	400		
TY-X0606RGB1 (0.40)-A-P6	1.6*1.6*0.4	Red	620-630	1.7	2.2	11.5	28		20
		Green	512-525	2.7	3.5	200	400		
		Blue	460-470	2.7	3.5	80	150		
TY-X0606BRY1 (0.40)-A-P6	1.6*1.6*0.4	Blue	460-470	2.7	3.5	80	150		20
		Red	620-630	1.7	2.2	11.5	28		
		Yellow	580-595	1.7	2.2	60	90		
TY-X0606GRB1 (0.40)-A-P6	1.6*1.6*0.4	Green	512-525	2.7	3.5	200	400	20	
		Red	620-630	1.7	2.2	11.5	28		
		Blue	460-470	2.7	3.5	80	150		
TY-X0606RWA1 (0.40)-A-P6	1.6*1.6*0.4	Red	620-630	1.7	2.2	11.5	28	20	
		White	X:0.27 Y:0.22	2.5	3.5	140	210		
		Orange	600-610	1.7	2.2	70	150		
TY-X0606RGA1 (0.40)-A-P6	1.6*1.6*0.4	Red	620-630	1.7	2.2	11.5	28	20	
		Green	512-525	2.7	3.5	200	400		
		Orange	600-610	1.7	2.2	70	150		



2020 Series (Top Type) (0.80 Thickness)

Dimensions (mm)	3D Image
<p>The technical drawing includes: <ul style="list-style-type: none"> Top view: 2.00 mm x 2.00 mm square package with four corners labeled 1, 2, 3, 4. Side view: Shows a height of 0.80 mm and a base width of 0.30 mm. Internal layout: Shows a central green cross-shaped pad and four corner pads, each 0.60 mm wide. Suggested Pad Size: Corner pads are 0.80 mm x 0.70 mm, and the central pad is 0.80 mm x 0.70 mm. Electrical diagram: Shows four pins: 1B-, 4G-, 2+, and 3R-. </p>	<p>A 3D perspective view of the LED package, showing its square shape and the central cross-shaped pad.</p>

Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2 θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY- X0808RGB1 (0.80) - A	2.0*2.0*0.8	Red	620-630	1.7	2.2	11.5	28	120°	20
		Green	515-525	2.7	3.5	200	400		
		Blue	460-470	2.7	3.5	80	150		



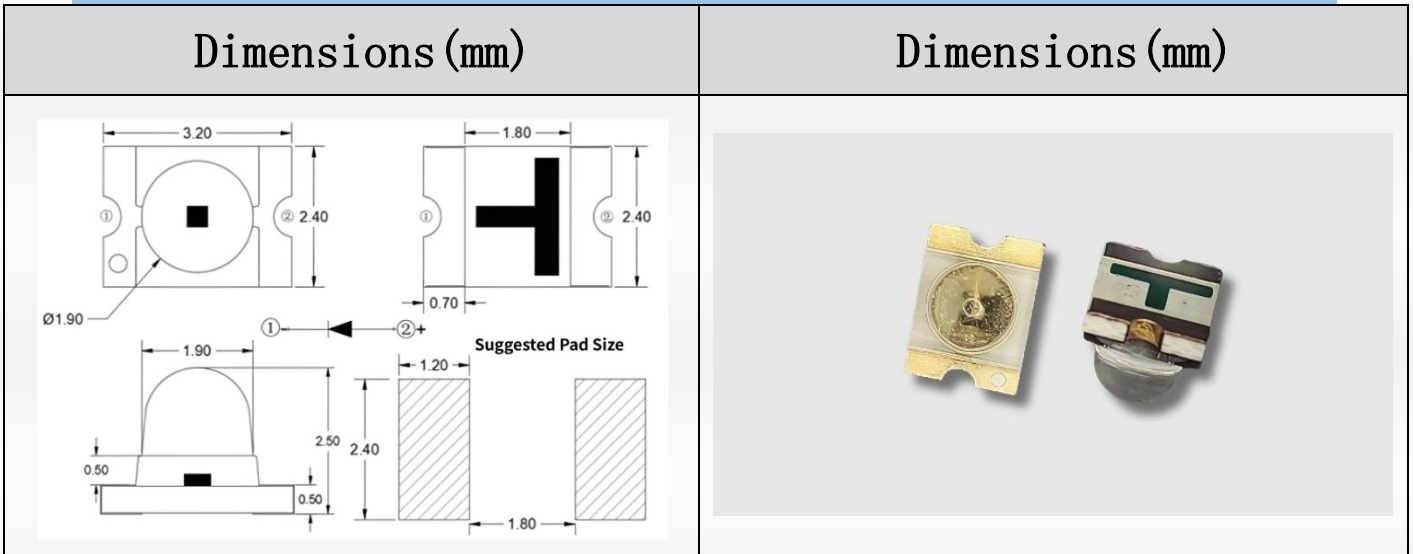
0808 Series (Multi-Color) (Top Type) (0.80 Thickness) (IC)

Dimensions (mm)	3D Image

Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Operating Voltage Vf (V)	IV (mcd)		Viewing Angle 2θ 1/2 (deg)	IF (mA)
					Min	Max		
TY- X0808RGB1 (0.80) - A -IC1818	2.0*2.0*0.8	Red	620-630	5	75	150	120°	5
		Green	520-530	5	200	400		
		Blue	460-475	5	50	130		
TY- X0808RGB1 (0.80) - A -IC1816	2.0*2.0*0.8	Red	620-630	5	100	220	120°	12
		Green	520-530	5	300	500		
		Blue	460-475	5	75	150		



1209 Series Dome Lens (2.50 Thickness)



Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY- X1209RGB1 (2.50) - LS-A	3.2*2.4*2.5	Red	615-635	1.7	2.2	11.5	28	30° / 60°	5
	3.2*2.4*2.5	Green	515-525	2.7	3.5	200	400		
	3.2*2.4*2.5	Blue	460-470	2.7	3.5	80	150		



1212 Series (0.90 Thickness)

Dimensions (mm)	3D Image

Product	Size (L*W*Hmm)	Color	λ d (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2 θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X1212RGB1 (0.90)-A- IC1816	3.3*3.2*0.9	Red	615-635	1.7	2.2	11.5	28	120°	20
		Green	515-525	2.7	3.5	200	400		
		Blue	460-470	2.7	3.5	80	150		



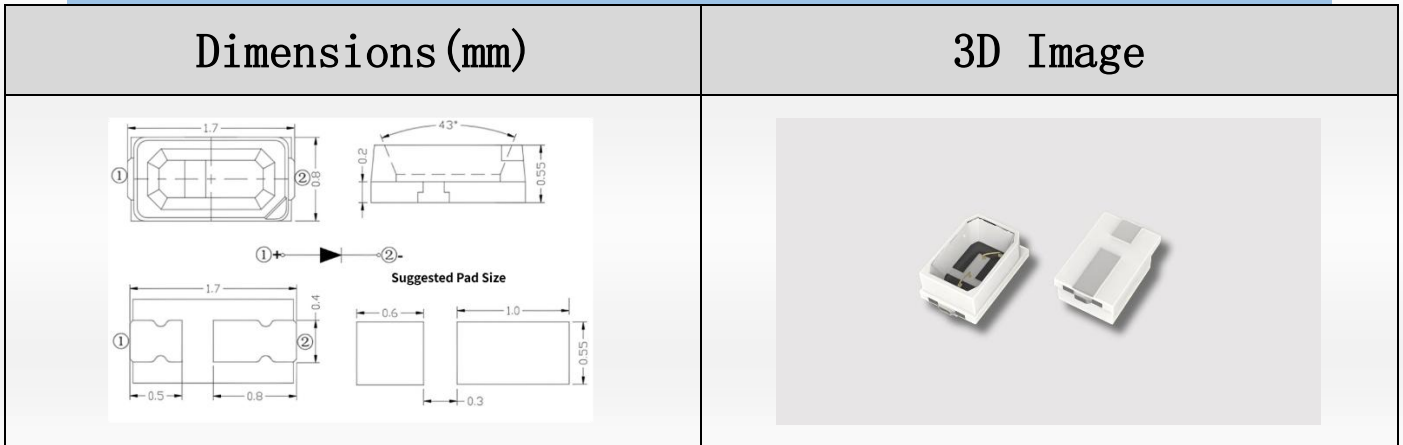
1610 Series Dome Lens (2.25 Thickness)

Dimensions (mm)	3D Image
<p>The technical drawings include: - Top view: Overall dimensions 4.00mm x 2.70mm. Pad positions 1 (R), 2 (+), 3 (G), 4 (B). Pad diameter $\phi 2.40$. - Side view: Shows the dome lens with a height of 2.30mm and a base diameter of 2.60mm. - Suggested Pad Size: Four pads with dimensions 1.40mm x 1.20mm and 1.80mm x 0.60mm.</p>	

Product	Size (L*W*Hmm) ()	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X1610RGB1 (2.25)-LS-A	4.0*2.7* 2.25	Red	620-630	1.7	2.2	11.5	28	30° / 60°	20
		Green	521-525	2.7	3.5	200	400		
		Blue	465-470	2.7	3.5	80	150		



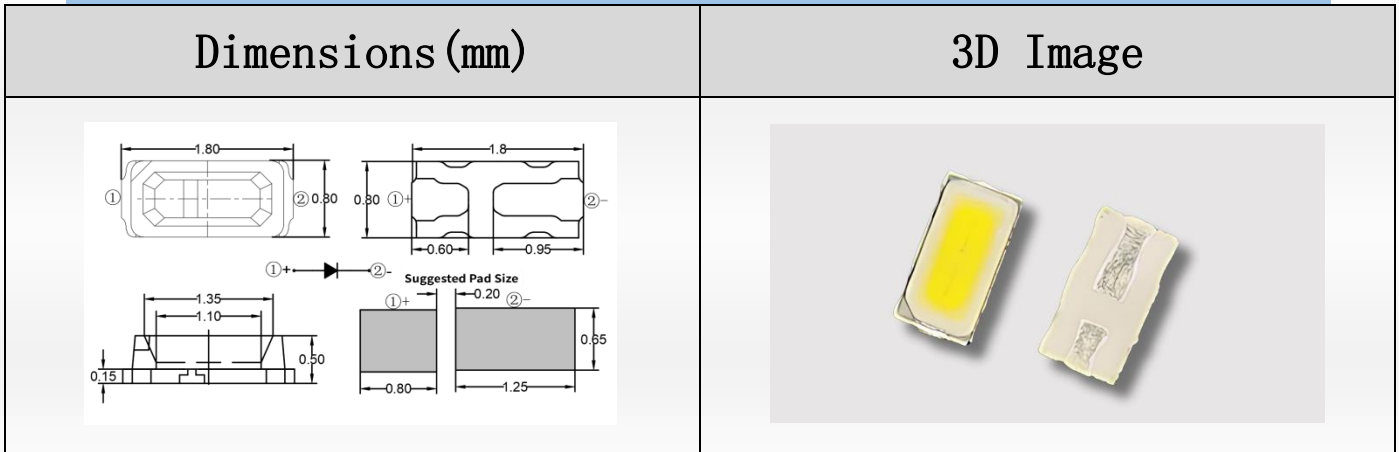
1708 Series (Top Type) (0.55 Thickness)



Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2 θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X1708UR1-0.1W-A	1.6*0.8*0.55	Red	615-635	1.8	2.4	50	70	120°	20
TY-X1708PG1-0.1W-A	1.6*0.8*0.55	Green	515-525	2.5	3.5	1480	1650		20
TY-X1708BL1-0.1W-A	1.6*0.8*0.55	Blue	460-470	2.5	3.5	80	130		20
TY-X1708UA1-0.1W-A	1.6*0.8*0.55	Orange	600-610	1.8	2.4	200	300		20
TY-X1708UY1-0.1W-A	1.6*0.8*0.55	Yellow	580-595	1.8	2.4	40	355		20
TY-X1708UG1-0.1W-A	1.6*0.8*0.55	Yellow Green	565-575	1.7	2.2	60	95		20
TY-X1708CW1-0.1W-A	1.6*0.8*0.55	Cold White	X:0.27 Y:0.22	2.5	3.5	1850	2600		20



1808 Series (Top Type) (0.50Thickness)



Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2 θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X1808UR1-0.1W-A	1.8*0.8*0.5	Red	618-640	1.8	2.4	520	620	120°	20
TY-X1808PG1-0.1W-A	1.8*0.8*0.5	Green	515-525	2.5	3.5	1480	1650		20
TY-X1808BL1-0.1W-A	1.8*0.8*0.5	Blue	460-470	2.5	3.5	90	130		20
TY-X1808UA1-0.1W-A	1.8*0.8*0.5	Orange	601-606	1.8	2.4	200	300		20
TY-X1808UY1-0.1W-A	1.8*0.8*0.5	Yellow	580-595	1.8	2.4	40	355		20
TY-X1808UG1-0.1W-A	1.8*0.8*0.5	Yellow Green	565-575	1.9	2.2	60	95		20
TY-X1808CW1-0.1W-A	1.8*0.8*0.5	Cold White	X:0.27 Y:0.22	2.5	3.5	1850	2600		20
TY-X1808BW1-0.1W-A	1.8*0.8*0.5	Ice Blue	X:0.15 Y:0.18	2.5	3.5	1300	1850		20



2020 Series (TOP Type) (0.80 Thickness) (IC)

Dimensions (mm)	3D Image
<p>The technical drawings include a top view of the chip with a 2.10mm square footprint, a side view showing a thickness of 0.80mm, and a suggested pad size diagram with dimensions of 1.10mm by 1.00mm. Electrical connections are labeled ①+, ②G-, ③R-, and ④B-.</p>	<p>Two 3D perspective views of the LED chips, one showing the top surface and the other showing the bottom surface with the pad layout.</p>

Product	Size (L*W*Hmm)	Color	λ d (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2 θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X2020RGB1 (0.80) - A-IC1815	2.0*2.0*0.8	Red	620-625	1.8	2.0	280	320	120°	20
		Green	525-527	2.9	3.0	600	700		
		Blue	465-470	3.0	3.2	130	150		



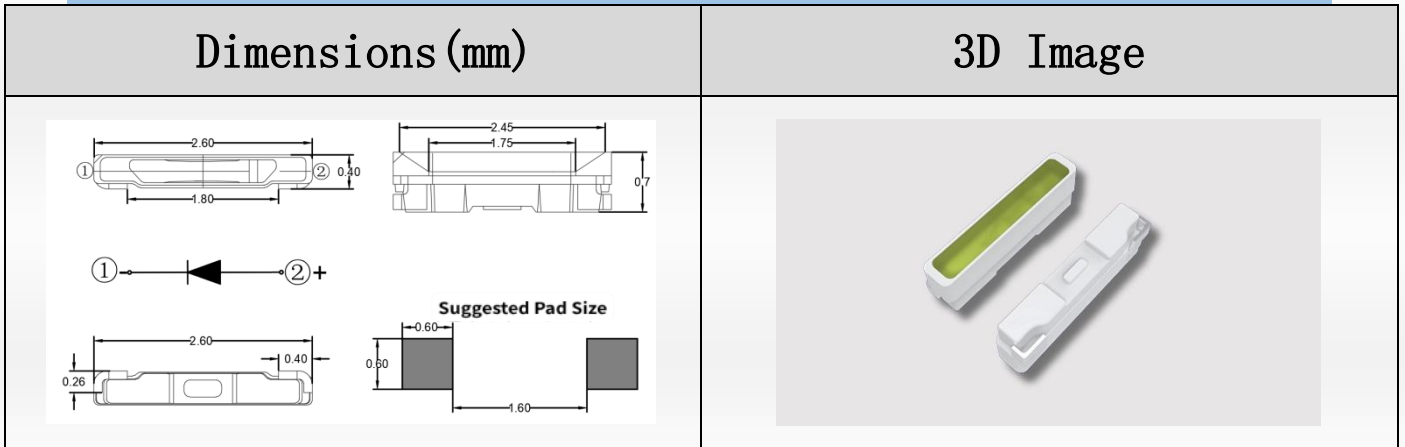
2110 Series (TOP Type) (1.00 Thickness)

Dimensions (mm)	3D Image

Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2 θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X2110CW1 (1.0)-0.1W-A	2.0*1.0*1.0	Cold White	X:0.27 Y:0.22	2.5	3.5	2450	3300	120°	20
TY-X2110UV1 (1.0)-0.1W-A	2.0*1.0*1.0	Purple	365-400	2.7	3.3	6.5	8		20



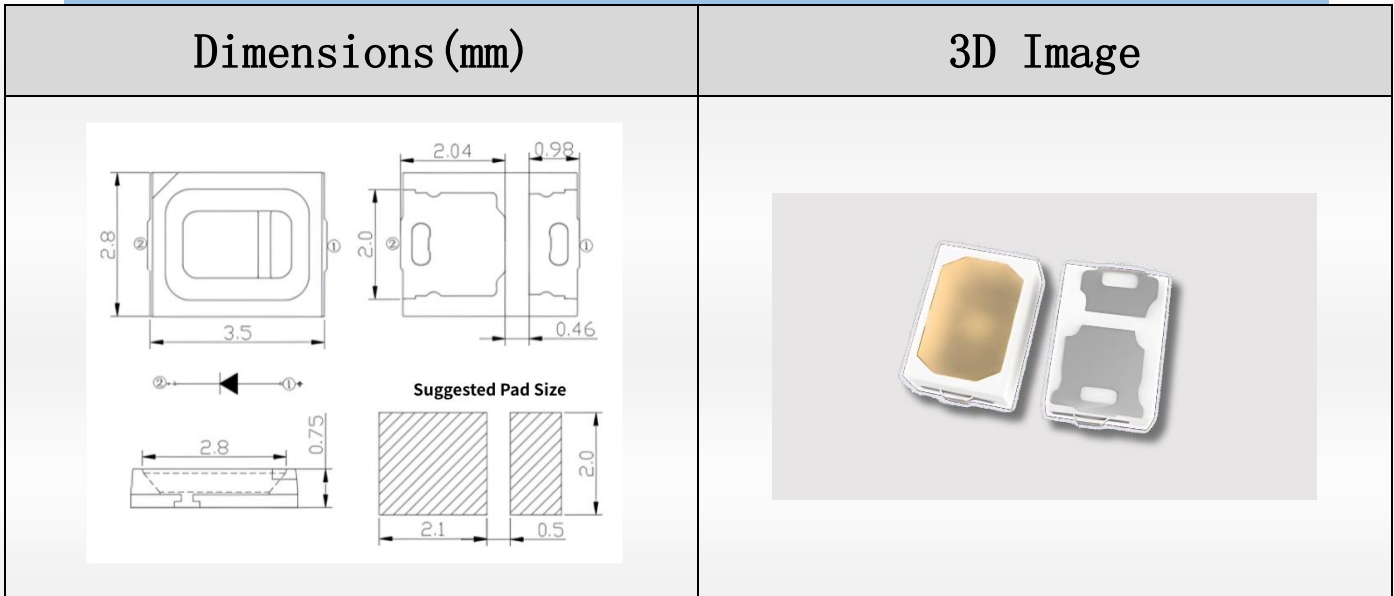
2604 Series (Side View) (TOP Type) (0.70 Thickness)



Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2 θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-XSV2604UR1 (0.70)-0.1W-A	2.6*0.4*0.7	Red	618-640	1.8	2.4	400	1000	120°	20
TY-XSV2604PG1 (0.70)-0.1W-A	2.6*0.4*0.7	Green	515-525	2.5	3.5	1000	3500		20
TY-XSV2604BL1 (0.70)-0.1W-A	2.6*0.4*0.7	Blue	460-470	2.5	3.5	500	800		20
TY-XSV2604UA1 (0.70)-0.1W-A	2.6*0.4*0.7	Orange	601-606	1.8	2.4	400	600		20
TY-XSV2604UY1 (0.70)-0.1W-A	2.6*0.4*0.7	Yellow	580-595	1.8	2.4	400	600		20
TY-XSV2604UG1 (0.70)-0.1W-A	2.6*0.4*0.7	Yellow Green	568-574	1.7	2.2	100	120		20
TY-XSV2604CW1 (0.70)-0.1W-A	2.0*1.0*0.8	Cold White	X:0.27 Y:0.24	2.8	3.4	2000	4000		20



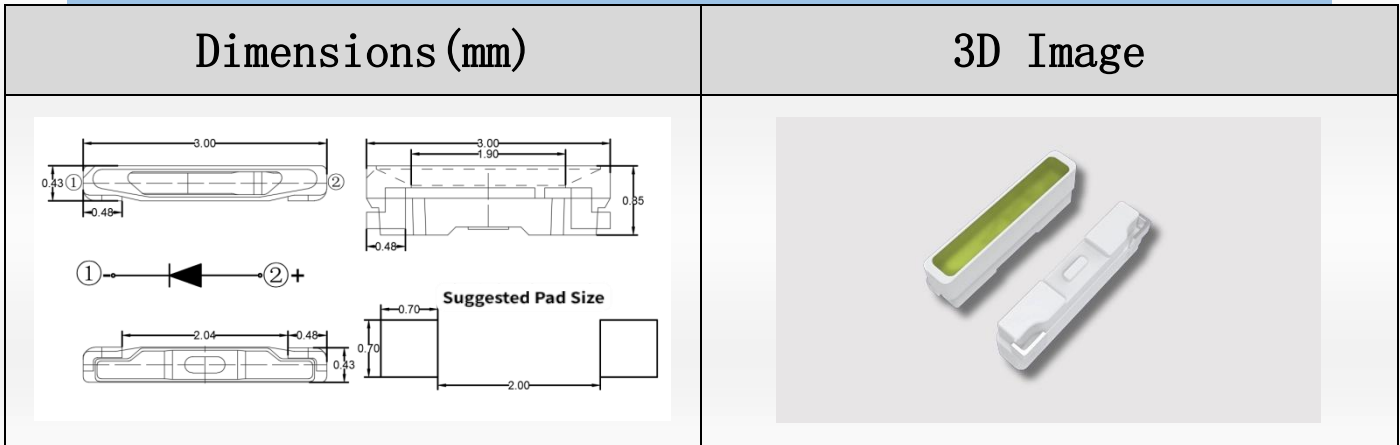
2835 Series (TOP Type) (0.75 Thickness)



Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2 θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X2835UR1-0.1W-A	3.5*2.8*0.75	Red	618-640	1.8	2.3	500	1000	120°	20
TY-X2835PG1-0.1W-A	3.5*2.8*0.75	Green	515-525	2.8	3.6	1000	1500		20
TY-X2835BL1-0.1W-A	3.5*2.8*0.75	Blue	460-470	2.8	3.6	250	400		20
TY-X2835UA1-0.1W-A	3.5*2.8*0.75	Orange	601-606	1.8	2.3	500	1000		20
TY-X2835UY1-0.1W-A	3.5*2.8*0.75	Yellow	580-595	1.8	2.3	400	600		20
TY-X2835CW1-0.1W-A	3.5*2.8*0.75	Cold White	X:0.27 Y:0.22	2.5	3.5	1300	3600		20
TY-X2835CW2-0.2W-A	3.5*2.8*0.75	White	X:0.27 Y:0.22	2.5	3.5	1300	3600		20
		White	X:0.27 Y:0.22	2.5	3.5	1300	3600		
TY-X2835RGB1-0.1W-A	3.5*2.8*0.75	Red	620-630	1.8	2.2	500	1000		20
		Green	512-520	2.7	3.2	1000	1500		
		Blue	460-470	2.7	3.2	250	400		



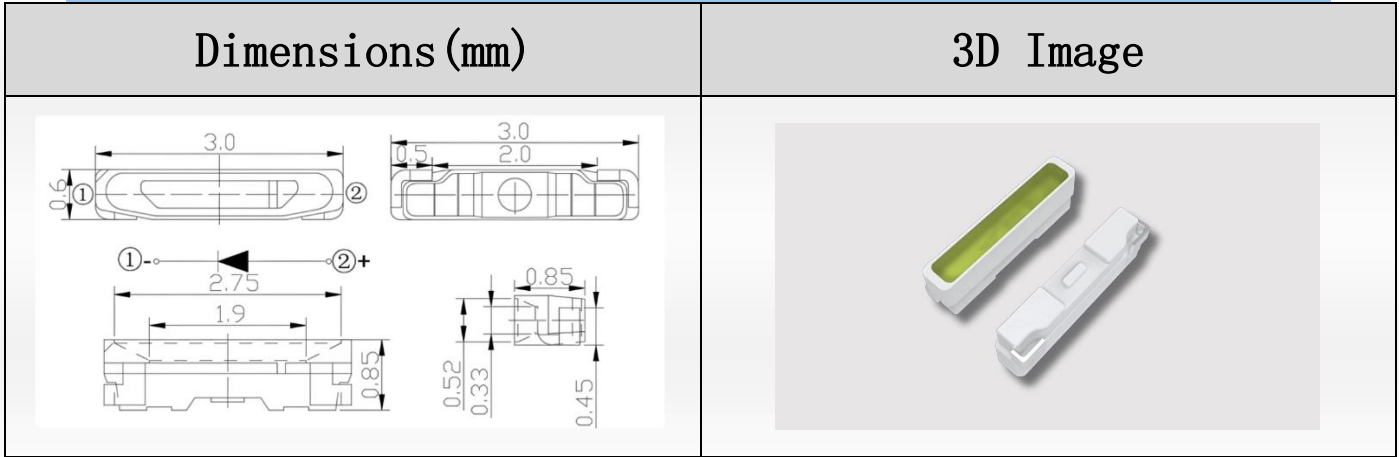
3004 Series (Side View) (Top Type) (0.85 Thickness)



Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2 θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-XSV3004UR1 (0.85)-0.1W-A	3.0*0.4*0.85	Red	618-640	1.8	2.4	400	1000	120°	20
TY-XSV3004PG1 (0.85)-0.1W-A	3.0*0.4*0.85	Green	515-525	2.5	3.5	1000	3500		20
TY-XSV3004BL1 (0.85)-0.1W-A	3.0*0.4*0.85	Blue	460-470	2.5	3.5	500	800		20
TY-XSV3004UA1 (0.85)-0.1W-A	3.0*0.4*0.85	Orange	601-606	1.8	2.4	400	600		20
TY-XSV3004UY1 (0.85)-0.1W-A	3.0*0.4*0.85	Yellow	580-595	1.8	2.4	400	600		20
TY-XSV3004UG1 (0.85)-0.1W-A	3.0*0.4*0.85	Yellow Green	568-574	1.7	2.2	100	120		20
TY-XSV3004CW1 (0.85)-0.1W-A	3.0*0.4*0.85	Cold White	X:0.27 Y:0.22	2.5	3.5	2000	4000		20



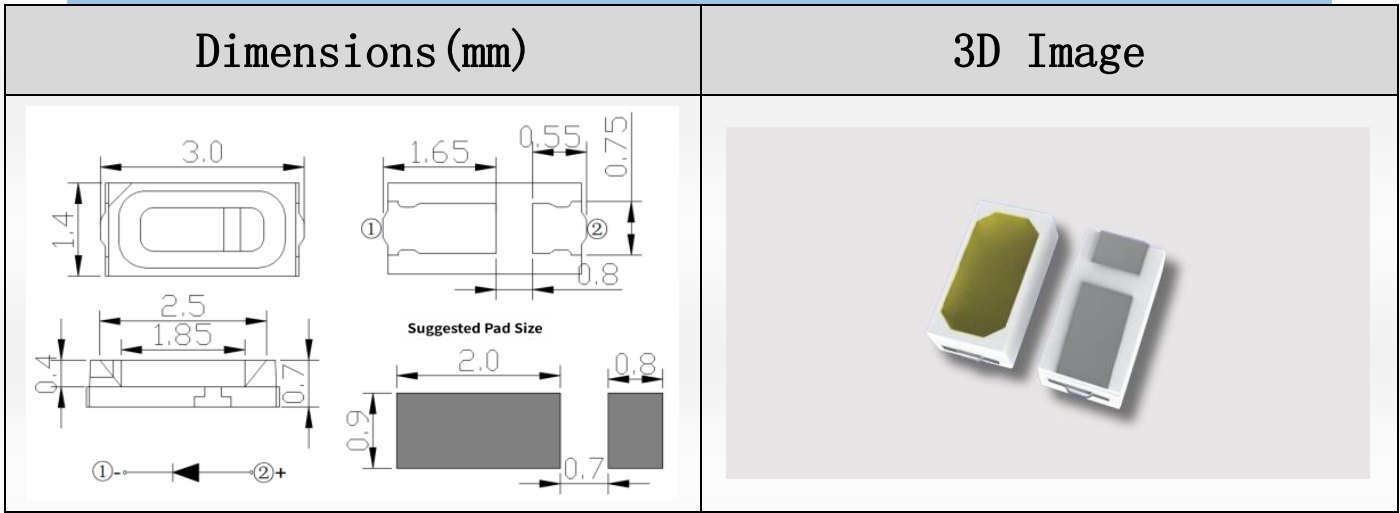
3006 Series (Side View) (Top Type) (0.85 Thickness)



Product	Size (L*W*Hmm)	Color	λ d (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY- XSV3006UR1 (0.85) - 0.1W-A	3.0*0.6*0.85	Red	618-640	1.8	2.4	400	1000	120°	20
TY- XSV3006PG1 (0.85) - 0.1W-A	3.0*0.6*0.85	Green	515-525	2.5	3.5	1000	3500		20
TY- XSV3006BL1 (0.85) - 0.1W-A	3.0*0.6*0.85	Blue	460-470	2.5	3.5	500	800		20
TY- XSV3006UA1 (0.85) - 0.1W-A	3.0*0.6*0.85	Orange	601-606	1.8	2.4	400	600		20
TY- XSV3006UY1 (0.85) - 0.1W-A	3.0*0.6*0.85	Yellow	580-595	1.8	2.4	400	600		20
TY- XSV3006UG1 (0.85) - 0.1W-A	3.0*0.6*0.85	Yellow Green	568-574	1.7	2.2	100	120		20
TY- XSV3006CW1 (0.85) - 0.1W-A	3.0*0.4*0.85	Cold White	X:0.27 Y:0.22	2.5	3.5	2000	4000		20



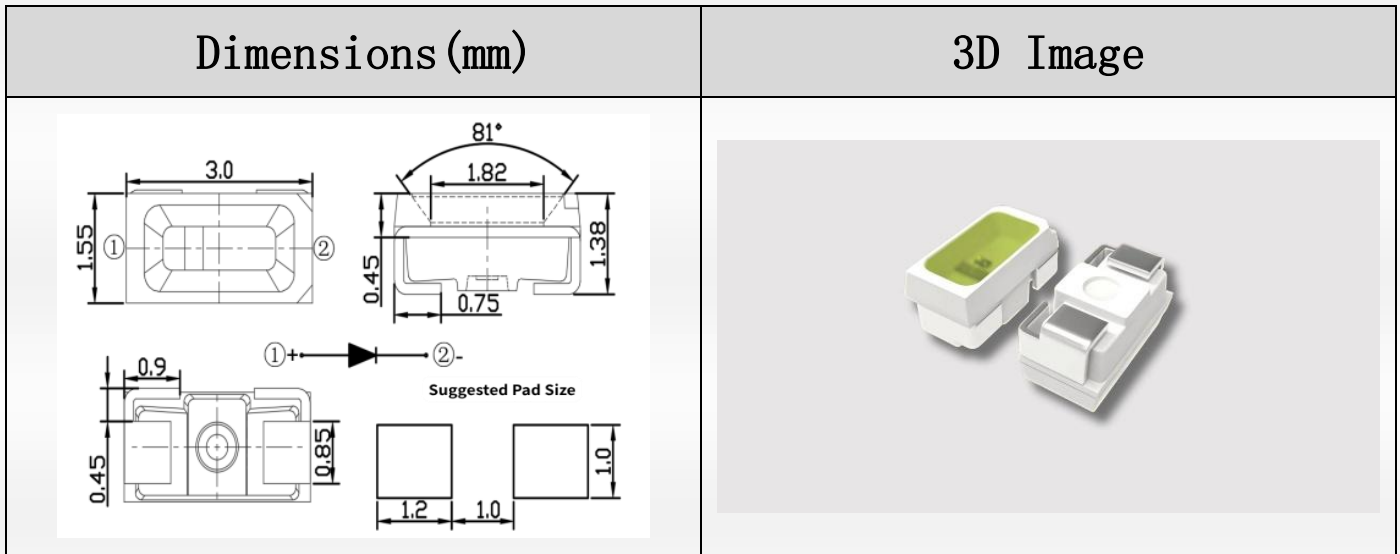
3014 Series (Top Type) (0.70 Thickness)



Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2 θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X3014UR1-0.1W-A	3.0*1.4*0.7	Red	618-640	1.8	2.4	700	900	120°	20
TY-X3014PG1-0.1W-A	3.0*1.4*0.7	Green	515-525	2.5	3.5	1400	1600		20
TY-X3014BL1-0.1W-A	3.0*1.4*0.7	Blue	460-470	2.5	3.5	400	600		20
TY-X3014UY1-0.1W-A	3.0*1.4*0.7	Yellow	580-595	1.8	2.4	700	900		20
TY-X3014UA1-0.1W-A	3.0*1.4*0.7	Orange	600-610	1.8	2.2	600	800		20
TY-X3014UG1-0.1W-A	3.0*1.4*0.7	Yellow Green	568-574	1.7	2.2	100	120		20
TY-X3014CW1-0.1W-A	3.0*1.4*0.7	Cold White	X:0.27 Y:0.22	2.5	3.5	2700	3300		20



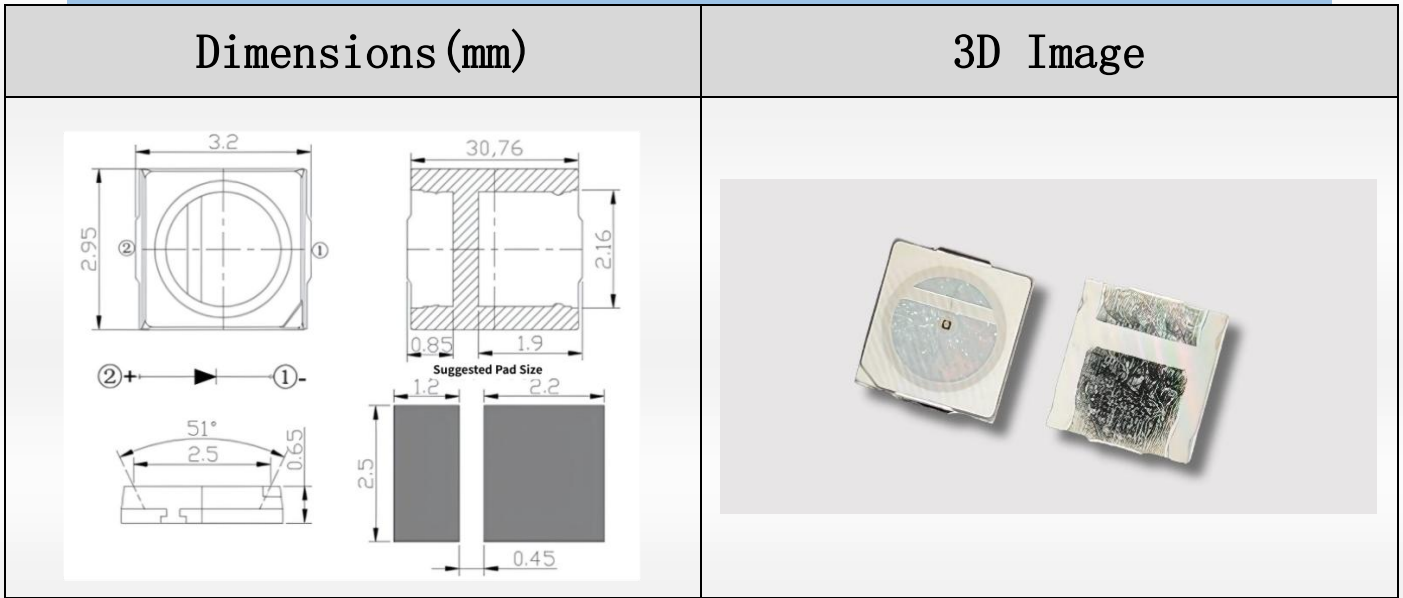
3014 Series (Side View) (Top Type) (1.40 Thickness)



Product	Size (L*W*Hmm)	Color	λ d (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2 θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-XSV3014BL1-0.1W-A	3.0*1.55*1.4	Blue	460-470	2.5	3.5	400	800	120°	20
TY-XSV3014UG1-0.1W-A	3.0*1.55*1.4	Yellow Green	568-574	1.7	2.2	100	120		20
TY-XSV3014CW1-0.1W-A	3.0*1.55*1.4	Cold White	X:0.27 Y:0.22	2.5	3.5	2700	3300		20



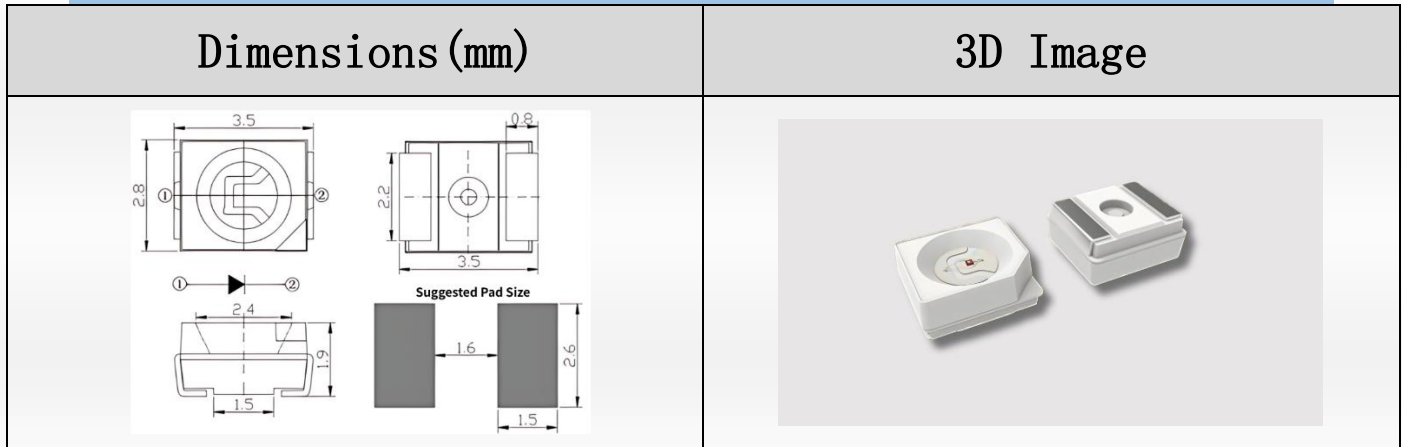
3030 Series (Top Type) (0.65 Thickness)



Product	Size (L*W*Hmm)	Color	λ d (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X3030BL1-0.1W-A	3.0*3.0*0.65	Orange	601-606	1.8	2.4	240	360	120°	20
TY-X3030CW1-0.1W-A	3.0*3.0*0.65	Cold White	X:0.27 Y:0.22	2.5	3.5	2300	3600		20



3528 Series (Top Type) (1.80 Thickness)



Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2 θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X3528UR1-0.1W-A	3.5*2.8*1.8	Red	618-635	1.8	2.4	600	900	120°	20
TY-X3528PG1-0.1W-A	3.5*2.8*1.8	Green	512-525	3.0	3.4	1000	1800		20
TY-X3528BL1-0.1W-A	3.5*2.8*1.8	Blue	460-470	3.0	3.4	300	600		20
TY-X3528UA1-0.1W-A	3.5*2.8*1.8	Orange	600-610	1.8	2.4	600	800		20
TY-X3528UY1-0.1W-A	3.5*2.8*1.8	Yellow	580-595	1.8	2.4	500	800		20
TY-X3528UG1-0.1W-A	3.5*2.8*1.8	Yellow Green	568-574	1.7	2.2	80	100		20
TY-X3528CW1-0.1W-A	3.5*2.8*1.8	Cold White	X:0.27 Y:0.22	3.0	3.4	2200	2800		20
TY-X3528UR1CW1-0.1W-A	3.5*2.8*1.8	White	X:0.27 Y:0.22	2.5	3.5	2200	2800		20
TY-X3528BL1PG1-0.1W-A	3.5*2.8*1.8	Red	620-625	1.8	2.4	600	900		20
		Blue	460-470	3.0	3.4	300	600		20
TY-X3528BL1PG1-0.1W-A	3.5*2.8*1.8	Green	515-525	2.5	3.5	1000	1200		20
		Orange	601-606	1.8	2.4	600	800		20
TY-X3528UA1BW1-0.1W-A	3.5*2.8*1.8	Ice Blue	X:0.15 Y:0.18	2.5	3.5	1100	2300		20
TY-X3528UY1UG1-0.1W-A	3.5*2.8*1.8	Yellow	580-595	1.8	2.4	500	800		20
		Yellow Green	568-574	1.7	2.2	80	100		
TY-X3528RGB1-0.1W-A	3.5*2.8*1.8	Red	620-630	1.8	2.4	600	900	20	
		Green	512-520	2.5	3.5	1000	1200		
		Blue	460-470	3.0	3.4	300	600		



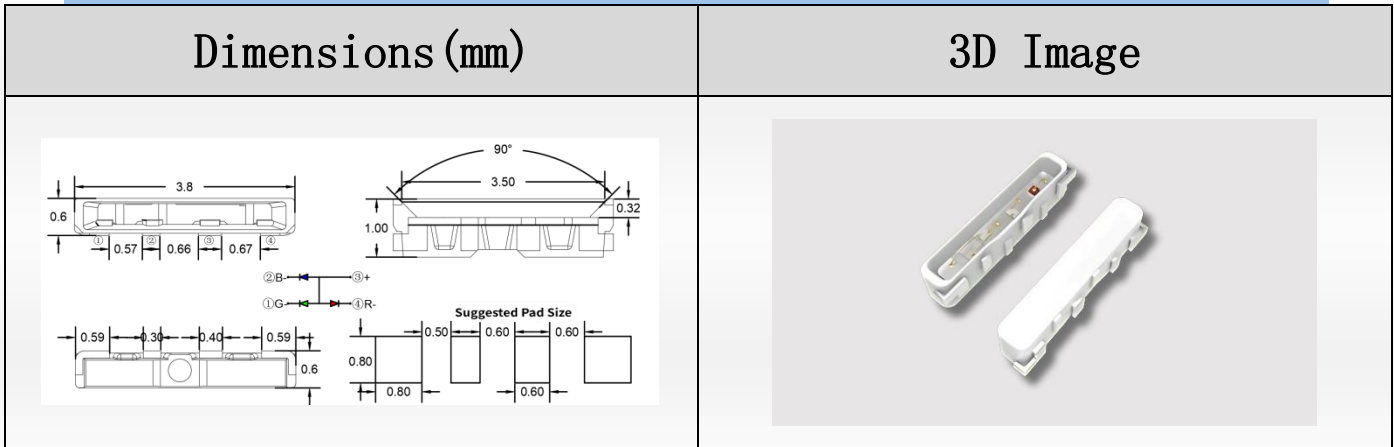
3537 Series (Top Type) (1.50 Thickness) (IC)

Dimensions (mm)	3D Image
<p>The technical drawings include a top view with dimensions 3.70mm (width) and 3.5mm (height), and a side view showing a thickness of 1.50mm. A 39-degree angle is indicated for the top surface. Pin configurations are labeled 1 (DI), 2 (GND), 3 (VDD), and 4 (DO).</p>	

Product	Size (L*W*Hmm)	Color	λ d (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2 θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X3537RGB1-A-IC1815	3.5*3.7*1.5	Red	620-625	1.8	2.4	600	900	120°	20
		Green	521-525	2.5	3.5	1000	1800		
		Blue	457-470	2.5	3.5	300	600		



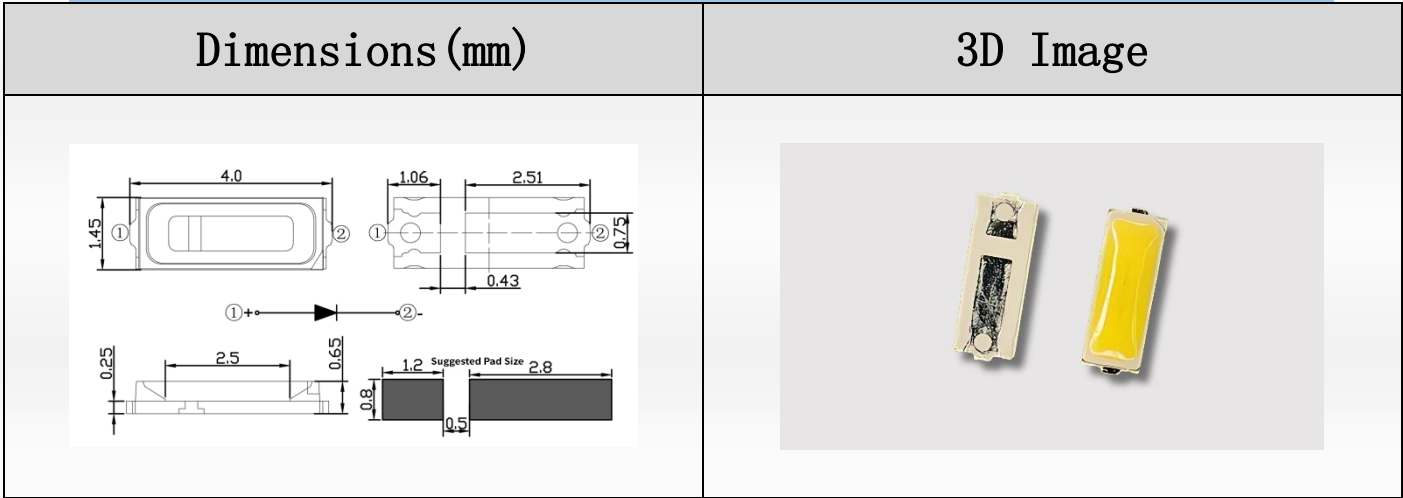
3806 Series (Side View) (Top Type) (1.00 Thickness)



Product	Size (L*W*Hmm)	Color	λd (nm) / CCT(K) / CIE(X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-XSV3806UR1 (1.0)-0.1W-A	3.8*0.6*1.0	Red	618-640	1.8	2.4	400	1000	120°	20
TY-XSV3806PG1 (1.0)-0.1W-A	3.8*0.6*1.0	Green	512-525	2.5	3.5	1000	3500		20
TY-XSV3806BL1 (1.0)-0.1W-A	3.8*0.6*1.0	Blue	460-470	2.5	3.5	500	800		20
TY-XSV3806UY1 (1.0)-0.1W-A	3.8*0.6*1.0	Yellow	580-595	1.8	2.4	400	600		20
TY-XSV3806CW1 (1.0)-0.1W-A	3.8*0.6*1.0	Cold White	X:0.27 Y:0.22	2.5	3.5	2000	4000		20
TY-XSV3806BW1 (1.0)-0.1W-A	3.8*0.6*1.0	Ice Blue	X:0.15 Y:0.18	2.5	3.5	2000	4000		20
TY-XSV3806UR1BL1 (1.0)-0.1W-A	3.8*0.6*1.0	Red	620-625	1.7	2.1	400	1000		20
		Blue	460-470	2.5	3.5	500	800		
TY-XSV3806RGB1 (1.0)-0.1W-A	3.8*0.6*1.0	Red	620-625	1.7	2.1	400	1000		20
		Green	512-525	2.5	3.5	1000	3500		
		Blue	460-470	2.5	3.5	500	800		
TY-XSV3806RGW1 (1.0)-0.1W-A	3.8*0.6*1.0	Red	620-625	1.7	2.1	400	1000	20	
		Green	512-525	2.5	3.5	1000	3500		
		White	X:0.27 Y:0.22	2.5	3.5	2000	4000		



4014 Series (Top Type) (0.65 Thickness)



Product	Size (L*W*Hmm)	Color	λ d (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2 θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X4014UR1-0.1W-A	4.0*1.45*0.65	Red	618-640	1.8	2.4	400	1000	120°	20
TY-X4014PG1-0.1W-A	4.0*1.45*0.65	Green	515-525	2.5	3.5	1000	3500		20
TY-X4014BL1-0.1W-A	4.0*1.45*0.65	Blue	460-470	2.5	3.5	500	800		20
TY-X4014UA1-0.1W-A	4.0*1.45*0.65	Orange	601-606	1.8	2.4	400	600		20
TY-X4014UY1-0.1W-A	4.0*1.45*0.65	Yellow	580-595	1.8	2.4	400	600		20
TY-X4014UG1-0.1W-A	4.0*1.45*0.65	Yellow Green	568-574	1.7	2.2	100	120		20
TY-X4014CW1-0.1W-A	4.0*1.45*0.65	Cold White	X:0.27 Y:0.22	2.5	3.5	2000	3000		20



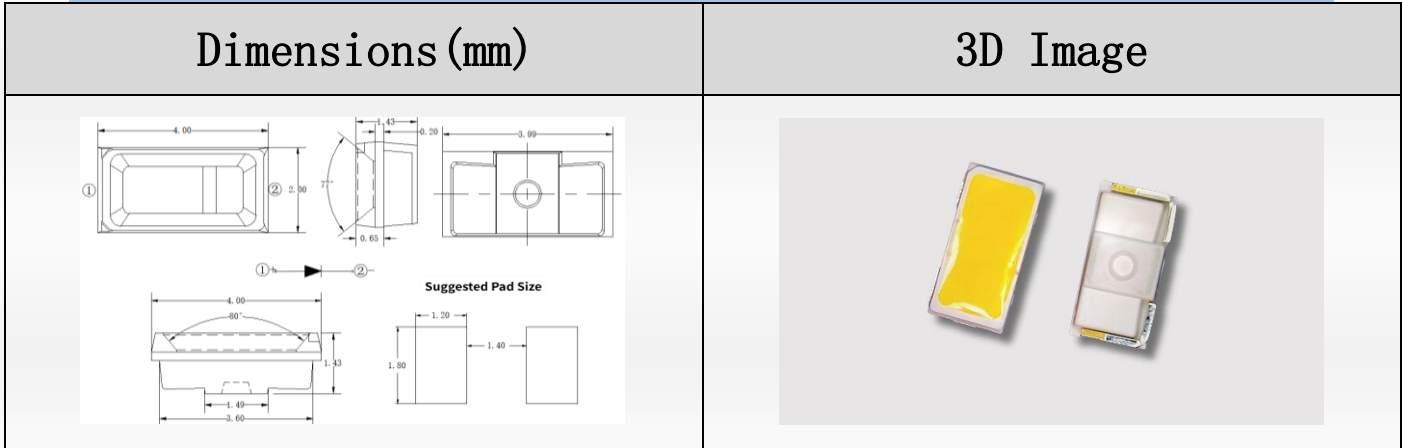
**4020 Series Multi-Color (Side View)
 (Top Type) (1.70 Thickness) (IC)**

Dimensions (mm)	3D Image

Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle $2\theta_{1/2}$ (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X4020RGB1-A-IC1815	4.0*2.0*1.7	Red	618-640	1.8	2.4	1000	1500	120°	20
		Green	515-525	2.5	3.5	1500	2200		
		Blue	460-470	2.5	3.5	700	1000		
TY-X4020RRR1-A-IC1815	4.0*2.0*1.7	Red	618-640	1.8	2.4	1000	1500		20
		Red	618-640	1.8	2.4	1000	1500		
		Red	618-640	1.8	2.4	1000	1500		



4020 Series(Side View) (Top Type) (1.70 Thickness)



Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2 θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X4020UR1-0.1W-A	4.0*2.0*1.7	Red	618-640	1.8	2.4	1000	1500	120°	20
TY-X4020PG1-0.1W-A	4.0*2.0*1.7	Green	515-525	2.5	3.5	1500	2200		20
TY-X4020BL1-0.1W-A	4.0*2.0*1.7	Blue	460-470	2.5	3.5	700	1000		20
TY-X4020UA1-0.1W-A	4.0*2.0*1.7	Orange	600-610	1.8	2.4	400	1000		20
TY-X4020UY1-0.1W-A	4.0*2.0*1.7	Yellow	580-595	1.8	2.4	400	1000		20
TY-X4020UG1-0.1W-A	4.0*2.0*1.7	Yellow Green	565-575	1.7	2.2	100	120		20
TY-X4020CW1-0.1W-A	4.0*2.0*1.7	Cold White	X:0.27 Y:0.22	2.5	3.5	1500	3600		20



5050 Series (Top Type) (1.60 Thickness)

Dimensions (mm)	3D Image

Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X5050CW3-0.1W-A	5.0*5.0*1.6	White	X:0.27 Y:0.22	2.5	3.5	1200	3600	120°	20
TY-X5050UR3-0.1W-A	5.0*5.0*1.6	Red	618-640	1.8	2.4	600	800		20
		Red	618-640	1.8	2.4	600	800		20
		Red	618-640	1.8	2.4	600	800		20
TY-X5050ARB1-0.1W-A	5.0*5.0*1.6	Orange	601-606	1.8	2.4	600	800		20
		Red	618-640	1.8	2.4	600	800		20
TY-X5050RGB1-0.1W-A	5.0*5.0*1.6	Blue	460-470	2.5	3.5	300	700		20
		Red	618-640	1.8	2.4	600	800		20
		Green	515-525	2.5	3.5	1400	1600		20
		Blue	460-470	2.5	3.5	300	700		



5054 Series (Top Type) (1.60 Thickness)

Dimensions (mm)	3D Image

Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2 θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X5054UR1-0.1W-A	5.0*5.0*1.6	Red	618-640	1.8	2.4	600	800	120°	20
TY-X5054PG1-0.1W-A	5.0*5.0*1.6	Green	515-525	2.5	3.5	1400	1600		20
TY-X5054BL1-0.1W-A	5.0*5.0*1.6	Blue	460-470	2.5	3.5	300	700		20
TY-X5054UA1-0.1W-A	5.0*5.0*1.6	Orange	601-606	1.8	2.4	600	800		20
TY-X5054UY1-0.1W-A	5.0*5.0*1.6	Yellow	580-595	1.8	2.4	200	500		20
TY-X5054UG1-0.1W-A	5.0*5.0*1.6	Yellow Green	568-574	1.7	2.2	100	120		20



6028 Series (Top Type) (1.50 Thickness)

Dimensions (mm)	3D Image

Product	Size (L*W*Hmm)	Color	λ d (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2 θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY- X6028RGB1- 0.1W-A	6.0*2.8*1.5	Red	618-640	1.8	2.4	600	900	120°	20
		Green	515-525	2.5	3.5	1000	1800		
		Blue	460-470	2.5	3.5	300	600		



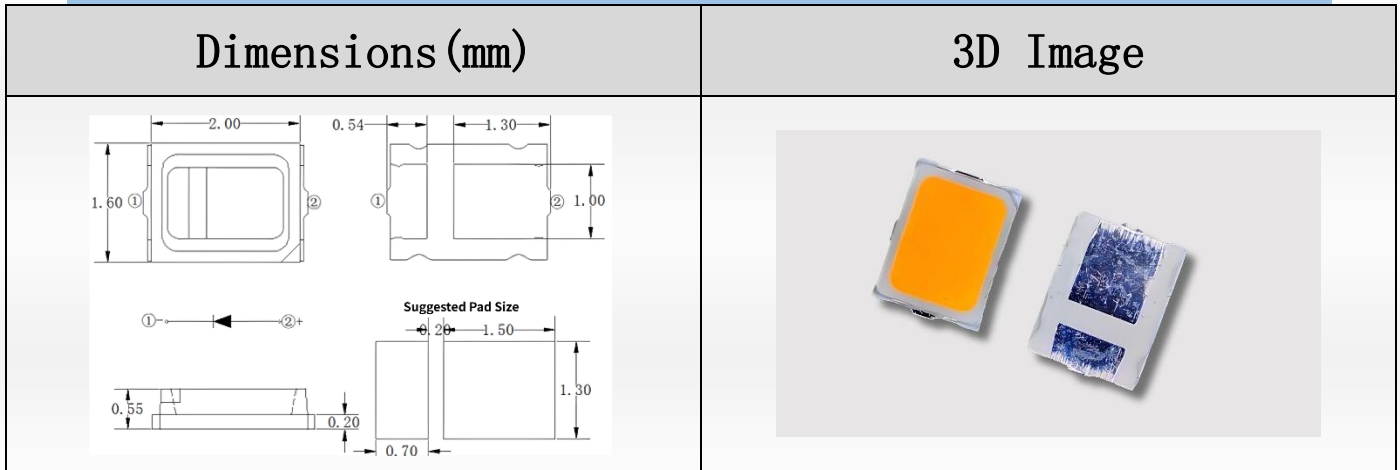
0604 Series (Side View), Dome Lens(1.10 Thickness)

Dimensions (mm)	3D Image

Product	Size (L*W*Hmm)	Color	λd (nm) / CCT(K) / CIE(X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2 θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-XSV0604UR1 (1.10)-A	1.7*0.9*1.1	Red	615-640	1.8	2.4	55	690	130°	20
TY-XSV0604PG1 (1.10)-A	1.7*0.9*1.1	Green	515-530	2.6	3.2	170	850		
TY-XSV0604BL1 (1.10)-A	1.7*0.9*1.1	Blue	457-472	2.6	3.2	100	280		
TY-XSV0604UA1 (1.10)-A	1.7*0.9*1.1	Orange	598-610	1.8	2.4	55	440		
TY-XSV0604UG1 (1.10)-A	1.7*0.9*1.1	Yellow Green	560-578	1.8	2.4	15	55		
TY-XSV0604CW1 (1.10)-A	1.7*0.9*1.1	Cold White	/	2.6	3.2	550	1050		
TY-XSV0604UY1 (1.10)-A	1.7*0.9*1.1	Yellow	580-598	1.8	2.4	75	550		



2016 Series (Top Type) (0.55 Thickness)



Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2 θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X2016UR1-0.1W-A	2.0*1.6*0.55	Red	615-640	1.8	2.4	55	690	120°	20
TY-X2016PG1-0.1W-A	2.0*1.6*0.55	Green	515-530	2.6	3.2	170	850		
TY-X2016BL1-0.1W-A	2.0*1.6*0.55	Blue	457-472	2.6	3.2	100	280		
TY-X2016UA1-0.1W-A	2.0*1.6*0.55	Orange	598-610	1.8	2.4	55	440		
TY-X2016UG1-0.1W-A	2.0*1.6*0.55	Yellow Green	560-578	1.8	2.4	15	55		
TY-X2016CW1-0.1W-A	2.0*1.6*0.55	Cold White	/	2.6	3.2	550	1050		
TY-X2016UY1-0.1W-A	2.0*1.6*0.55	Yellow	580-598	1.8	2.4	75	550		



0702 Series (Side View) (1.00 Thickness)

Dimensions (mm)	3D Image

Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2 θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-XSV0702UR1 (1.0) -A	1.8*0.3*1.0	Red	615-640	1.8	2.4	55	690	130°	20
TY-XSV0702PG1 (1.0) -A	1.8*0.3*1.0	Green	515-530	2.6	3.2	170	850		
TY-XSV0702BL1 (1.0) -A	1.8*0.3*1.0	Blue	457-472	2.6	3.2	100	280		
TY-XSV0702UA1 (1.0) -A	1.8*0.3*1.0	Orange	598-610	1.8	2.4	55	440		
TY-XSV0702UG1 (1.0) -A	1.8*0.3*1.0	Yellow Green	560-578	1.8	2.4	15	55		
TY-XSV0702CW1 (1.0) -A	1.8*0.3*1.0	Cold White	/	2.6	3.2	550	1050		
TY-XSV0702UY1 (1.0) -A	1.8*0.3*1.0	Yellow	580-598	1.8	2.4	75	550		



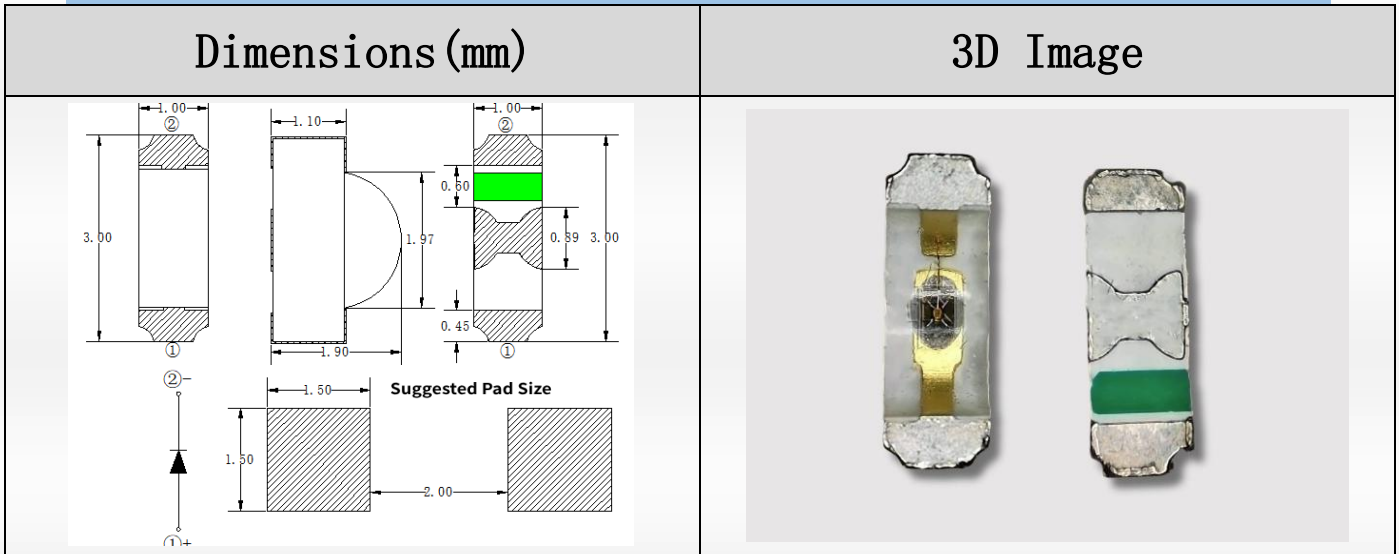
1210 Series Dome Lens (1.50 Thickness)

Dimensions (mm)	3D Image								
<p>Technical drawing showing dimensions (mm) and suggested pad sizes for the 1210 Series Dome Lens. The drawing includes a top view with dimensions 3.00, 2.50, 2.00, and 1.50. A side view shows a height of 1.50 and a radius of R0.45. A cross-section shows a lens thickness of 1.50 and a dome height of 0.90. Labels ①, ②, ③, and ④ indicate different regions. A suggested pad size table is provided:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> <tr> <td style="text-align: center;">0.90</td> <td style="text-align: center;">1.50</td> <td style="text-align: center;">0.80</td> <td style="text-align: center;">0.60</td> </tr> </table>					0.90	1.50	0.80	0.60	
0.90	1.50	0.80	0.60						

Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle $2\theta 1/2$ (deg)	IF (mA)
				Min	Max	Min	Max		
TY-X1210UR1UG1 (1.5)-LS-A	3.0*2.5*1.5	Red	615-640	1.8	2.4	170	850	60°	20
		Yellow	560-578	1.8	2.4	55	550		
		Green							



1204 Series (Side View) (1.90 Thickness)



Product	Size (L*W*Hmm)	Color	λd (nm) / CCT (K) / CIE (X, Y)	Vf (V)		IV (mcd)		Viewing Angle 2 θ 1/2 (deg)	IF (mA)
				Min	Max	Min	Max		
TY-XSV1204UR1 (1.90) -A	3.0*1.0*1.9	Red	615-640	1.8	2.4	55	690	130°	20
TY-XSV1204PG1 (1.90) -A	3.0*1.0*1.9	Green	515-530	2.6	3.2	170	850		
TY-XSV1204BL1 (1.90) -A	3.0*1.0*1.9	Blue	457-472	2.6	3.2	100	280		
TY-XSV1204UA1 (1.90) -A	3.0*1.0*1.9	Orange	598-610	1.8	2.4	55	440		
TY-XSV1204UG1 (1.90) -A	3.0*1.0*1.9	Yellow Green	560-578	1.8	2.4	15	55		
TY-XSV1204CW1 (1.90) -A	3.0*1.0*1.9	Cold White	/	2.6	3.2	550	1050		
TY-XSV1204UY1 (1.90) -A	3.0*1.0*1.9	Yellow	580-598	1.8	2.4	75	550		



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