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White SMT, T1 (3mm), T1¾ (5mm) Discrete LEDs



Sunlight-Visible Waterclear Lens Illuminators SMT, T1 (3mm), T1¾ (5mm) Super White InGaN Discrete LEDs

 A. L200 (5mm Standard Dome)	 B. LF200 (5mm Cylindrical)	 C. LD200 (5mm Flangeless Dome)	 D. L120 (3mm Standard Dome)
 E. SML0603 (0603 SMT)	 G. PLCC SMT	 H. LD200 (5mm Flangeless Dome) 50° Pure White	 I. LD200 (5mm Flangeless Dome) 20° Incand White
 F. SML0805 (0805 SMT)			
 J. RL280 (5mm Rectangular)	 K. L400 (10mm Dome)	 L. SPL300, SPL301 (Hi-Flux 3mm Dome)	 M. SPL1290 (1290 Profile Dome)

Electrical-Optical Characteristics (T_a = 25°C)

Mark To Order	Part Number	Fig.	Retail Price (Volume Discount Available)	Netdisty Min. Order	LED Color	Lens Color	M A X	I _f (mA) typ	I _v (mcd) typ	V _f (V) typ/ max	Color Temp.	Chromaticity Coordinates typ		Full Viewing Angle 2θ½ (deg)	
												X	Y		
Surface Mount SMT Package Cool-White Discretes (0603, 0805, 1209)															
	SML0603-2CW-TR		E		\$25.00	C. White	W Clear	(7)	20	160	3.5/4.0	8000K	0.32	0.31	120°
	SML0805-2CW-TR		F		\$25.00	C. White	W Clear	(7)	20	160	3.5/4.0	8000K	0.32	0.31	120°
	SML1209-CW-TR		M		\$25.00		W Clear	(11)	20	120	3.3/4.0		0.24	0.24	75°
	SML10CW2KT-TR		G		\$25.00	C. White	WClear	(5)	20	125	3.6/4.2	6500K	0.32	0.31	120°
3mm Hi-Flux Cool-White SpiderLED™ Discretes															
	SPL300CW1K		L		\$25.00	C. White	WClear	(9)	20	250	3.5/4.0	8000K	0.31	0.32	65°
	SPL301CW1K		L		\$25.00	C. White	WClear	(10)	20	200	3.5/4.0	8000K	0.31	0.32	85°
T1 (3mm) Cool-White Discretes															
	L120CW3KB-22D		D		\$25.00	C. White	W Clear	(4)	20	3500	3.5/4.0	8000K	0.32	0.31	22°
	L120CW2KB-22D		D		\$25.00	C. White	W Clear	(4)	20	2500	3.5/4.0	8000K	0.32	0.31	22°
T1¼ (5mm) Cool-White, Pale-White, and "Incandescent"-White Discretes															

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Sunlight-Visible Waterclear Lens Illuminators

SMT, T1 (3mm), T1³/₄ (5mm) Super White InGaN Discrete LEDs

Mark To Order	Part Number	Fig.	Retail Price (Volume Discount Available)	Netdisty Min. Order	LED Color	Lens Color	M A X	I _f (mA) typ	I _v (mcd) typ	V _f (V) typ/ max	Color Temp.	Chromaticity Coordinates typ		Full Viewing Angle 2θ _{1/2} (deg)	
												X	Y		
T1¾ (5mm) Cool-White, Pale-White, and "Incandescent"-White Discretes															
	L200CW6KB-12D		A		\$25.00	C. White	W Clear	(1)	20	6000	3.5/4.0	8000K	0.32	0.31	12°
	L200CW8KB-12D		A		\$25.00	C. White	W Clear	(1)	20	8000	3.5/4.0	8000K	0.32	0.31	12°
	L200CW4KB-22D		A		\$25.00	C. White	W Clear	(1)	20	4000	3.5/4.0	8000K	0.32	0.31	22°
	L200-0WW-20D		A		\$25.00	C. White	W Clear	(1)	20	6000	3.5/4.0	7000K	0.32	0.31	20°
	L200CW6KB-22D		A		\$25.00	C. White	W Clear	(1)	20	6000	3.5/4.0	8000K	0.32	0.31	22°
	L200CW2KB-33D		A		\$25.00	C. White	W Clear	(1)	20	2000	3.5/4.0	8000K	0.32	0.31	33°
	L200CW3KB-33D		A		\$25.00	C. White	W Clear	(1)	20	3000	3.5/4.0	8000K	0.32	0.31	33°
	L200CW1KB-15D					Use L200CW6KB-12D									
	L200CW1KB-30D					Use L200CW2KB-33D									
	LF200CW6KB-27		B		\$25.00	C. White	W Clear	(1)	20	400	3.3/4.0	8000K	0.32	0.31	125°
	LD200CW6K-20D		C		\$25.00	C. White	W Clear	(3)	20	5600	3.6/4.0	8000K	0.31	0.32	20°
	LD200CW2K-50D		C		\$25.00	C. White	W Clear	(3)	20	1560	3.6/4.0	8000K	0.31	0.32	50°
	LF200CW6K-27		B		\$25.00	C. White	W Clear	(3)	20	500	3.6/4.0	8000K	0.31	0.32	125°
	L200-0PW-20D		A		\$25.00	P. White	W Clear	(6)	20	4000	3.6/4.0	6500K	0.35	0.37	20°
	LD200CPW1K-50D		H		\$25.00	P. White	W Clear	(6)	20	1100	3.6/4.0	6500K	0.35	0.37	50°
	LD200CIW2K-20D		I		\$25.00	Incand White	W Clear	(6)	20	2000	3.6/4.0	4500K	0.45	0.42	20°
10mm Dome Cool-White Discretes															
	L400CW3KB-25D		K		\$25.00	C. White	W Clear	(4)	20	2500	3.5/4.0	8000K	0.32	0.31	25°
2x5mm Rectangular Cool-White Discretes															
	RL280CW1KB		J		\$25.00	C. White	W Clear	(8)	20	50	3.5/4.0	8000K	0.31	0.32	80°

Absolute Maximum Ratings (T_a = 25°C, I_f = 20mA)

Code	P _d (mW)	I _{fp} (mA)	I _f (mA)	V _r (V)	T _{opr} (°C)	T _{sto} (°C)	Pulse Width	Lead Soldering
(1)	120	100	30	5	-40 to ~ +80	-40 to ~ +80	≤10ms, Duty Cycle ≤1/10	1.6mm (.063in.) from body, 260°C for 5 sec.
(2)	120	100	30	5	-20 to ~ +80	-30 to ~ +100	≤10ms, Duty Cycle ≤1/10	1.6mm (.063in.) from body, 260°C for 5 sec.
(3)	120	100	30	5	-30 to ~ +85	-40 to ~ +100	≤10ms, Duty Cycle ≤1/10	1.6mm (.063in.) from body, 260°C for 5 sec.
(4)	120	150	30	5	-40 to ~ +80	-40 to ~ +85	≤10ms, Duty Cycle ≤1/10	1.6mm (.063in.) from body, 260°C for 5 sec
(5)	100	150	30	5	-40 to ~ +85	-40 to ~ +100	≤10ms, Duty Cycle ≤1/10	Preheating Temp: 100°C to 150°C within 5 sec Soldering Temp: 240°C to 250°C within 5 sec
(6)	120	100	30	5	-30 to ~ +80	-40 to ~ +100	≤10ms, Duty Cycle ≤1/10	1.6mm (.063in.) from body, 260°C for 5 sec.
(7)	120	100	30	5	-25 to ~ +80	-30 to ~ +85	≤10ms, Duty Cycle ≤1/10	[Reflow soldering] Preheating: 140°C ~ 160°C±5°C within 2 min. Operation- heating: 235°C max within 10 sec. max. [see pdf for DIP soldering]
(8)	100	100	30	5	-40 to ~ +80	-40 to ~ +85	≤10ms, Duty Cycle ≤1/10	1.6mm (.063in.) from body, 260°C for 5 sec
(9)	100	100	30	5	-40 to ~ +85	-40 to ~ +100	≤10ms, Duty Cycle ≤1/10	1.6mm (.063in.) from body, 260°C for 5 sec.
(10)	110	100	30	5	-40 to ~ +85	-40 to ~ +100	≤10ms, Duty Cycle ≤1/10	1.6mm (.063in.) from body, 260°C for 5 sec.
(11)	111	100	20	5	-40 to ~ +85	-40 to ~ +85		1.6mm (.063in.) from body, 250°C ±5°C for 3 sec.