

MOLEX Helieon™ Light Modules

one company a world of innovation



This product is RoHS compliant.



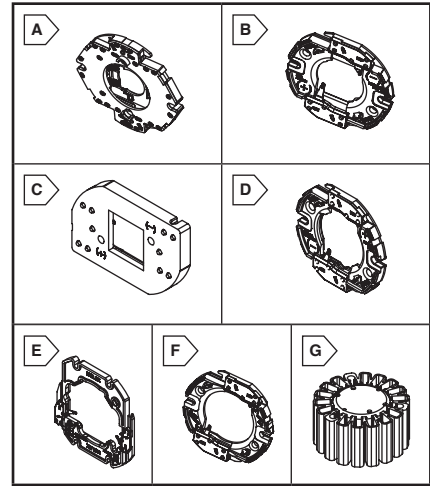
MOLEX LED ARRAY HOLDERS

- Compression contacts to power array
- Double-ended wire-trap terminal to attach power source
- Releasable wire trap for rework or replacement
- Snap lock feature for optional optic

- High-temperature thermoplastic housing
- Screw-mount attachment method for securing array to heat sink

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Molex Part No.	Fig.	Description	Price Each			
				1	10	25	50
LED Array Holder for Cree XLamp Arrays							
538-180160-0000	180160-0000	A	For Cree XLamp MP-L without Lens Cover, Parallel Circuits	4.94	4.08	3.75	3.37
538-180160-0001	180160-0001	A	For Cree XLamp MP-L with Lens Cover, Parallel Circuits	5.33	4.41	4.05	3.64
538-180160-0002	180160-0002	A	For Cree XLamp MP-L without Lens Cover, Series Circuits	4.94	4.08	3.75	3.37
538-180160-0003	180160-0003	A	For Cree XLamp MP-L with Lens Cover, Series Circuits	5.33	4.41	4.05	3.64
538-180220-0000	180220-0000	B	For Cree XLamp CXA20 Arrays without Lens Cover	3.65	3.03	2.78	2.53
538-180220-0001	180220-0001	B	For Cree XLamp CXA20 Arrays with Lens Cover	4.98	4.12	3.79	3.43
LED Array Holder for Illumitex Aduro and Surexi AD44							
538-180250-0001	180250-0001	C	LED Array Holder for Illumitex Aduro and Surexi AD44 with Cover	3.02	2.87	2.64	2.43
LED Array Holder for Bridgelux Arrays							
538-180150-0000	180150-0000	D	LED Array Holder for Bridgelux ES, without Lens Cover	3.01	2.47	2.26	2.09
538-180150-0001	180150-0001	D	LED Array Holder for Bridgelux ES, with Lens Cover	3.46	3.11	2.87	2.59
538-180180-0000	180180-0000	E	LED Array Holder for Bridgelux RS, without Lens Cover	5.85	5.37	4.94	4.53
LED Array Holder for Citizen Arrays							
538-180190-0000	180190-0000	F	LED Array Holder for Citizen CL-L340 without Lens Cover	3.66	3.47	3.19	2.94
538-180190-0001	180190-0001	F	LED Array Holder for Citizen CL-L340 with Lens Cover	4.94	4.68	4.32	3.97
Heat Sink for LED Array Holders							
538-180289-0000	180289-0000	G	Heat Sink, 80.00mm (3.15") Dia. Black Anodized Finish	1	5		
				16.17		15.21	



HELIEON™ SUSTAINABLE LIGHT MODULES

Features:

- Integrated solid state lighting solution for OEM fixture manufacturers, lighting designers and architects
- Multiple product options compatible with a single thermal and electronic driver system design
- Separable socketed plug-and-play solution (socket and module) with a turn-and-click installation process
- Uniform high-quality illumination with beam control optics (24, 32 and 50 degree options)
- High system efficacy enables luminaires with operating efficiencies of >50 lm/W
- Color controlled to a single 3-step MacAdams ellipse
- UL recognized (pending)
- Three year limited warranty
- Recyclable components, Pb and Mercury free, RoHS compliant

Benefits:

- Simplifies the design integration effort and accelerates time to market
- Enables flexibility to change the lighting experience after installation
- Enables separation of source and fixture, emulating traditional lighting with a familiar turn-and-click installation process
- Delivers clean white light without pixilation for precision lighting effects
- Meets or exceeds global regulatory requirements such as Energy Star, Title 24, Part L and others
- Uniform consistent white light between luminaires in the lighting installation
- Streamlines the UL-listing process for the luminaire
- Enables luminaire manufacturers to design with confidence
- Reduces environmental and disposal issues, delivering a sustainable solution

Applications:

- Down lights
- Task and accent lighting
- Spot and track lights
- Troffers and interior-area lighting
- Retail and display lighting
- Hospitality lighting
- Architectural lighting
- Decorative lighting
- Museum lighting

Notes:

1. Driving these high-current devices at low currents can result in variations in performance. For low-current operation, pulse width modulation is recommended.
2. A maximum duty cycle of 10% is recommended when operating the Helieon module at the maximum peak pulsed current specified.
3. LEDs are not designed to be driven with a reverse voltage. TYPICAL PRODUCT PERFORMANCE Helieon™ Sustainable Light Module

MAXIMUM PRODUCT RATINGS

Parameter	Maximum Rating
Maximum DC Forward Current	2000mA
Minimum DC Forward Current ⁽¹⁾	600mA
Maximum Peak Pulsed Current ⁽²⁾	2800mA
Maximum Reverse Voltage ⁽³⁾	-20V
Operating Temperature	-40°C to +95°C
Storage Temperature	-40°C to +105°C

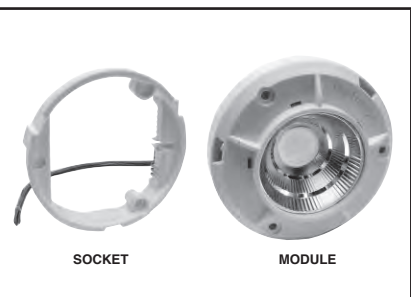
For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Molex Part No.	CCT	CRI	Beam Angle (FWHM)	Forward Current (mA)	Hot Lumens ⁽¹⁾ (T _c 60°C)	Voltage ⁽²⁾ (V)	Nominal Wattage (T _c 60°C) (W)	Nominal Efficacy (T _c 60°C) (lm/W)	Price Each		
										1	5	10
800 Lumen Series Modules												
538-180081-2220	180081-2220	3000K	82	24°	700	490	11.4	7.9	62	33.35	32.87	32.58
					1050	710	11.9	12.4	57			
					1400	860	12.3	17.2	50			
538-180081-2230	180081-2230	3000K	82	32°	700	490	11.4	7.9	62	33.35	32.87	32.58
					1050	710	11.9	12.4	57			
					1400	860	12.3	17.2	50			
538-180081-2250	180081-2250	3000K	82	50°	700	490	11.4	7.9	62	33.35	32.87	32.58
					1050	710	11.9	12.4	57			
					1400	860	12.3	17.2	50			
538-180081-4220	180081-4220	4100K	80	24°	700	550	11.4	7.9	70	33.35	32.87	32.58
					1050	800	11.9	12.4	64			
					1400	1020	12.3	17.2	59			
538-180081-4230	180081-4230	4100K	80	32°	700	550	11.4	7.9	70	33.35	32.87	32.58
					1050	800	11.9	12.4	64			
					1400	1020	12.3	17.2	59			
538-180081-4250	180081-4250	4100K	80	50°	700	550	11.4	7.9	70	33.35	32.87	32.58
					1050	800	11.9	12.4	64			
					1400	1020	12.3	17.2	59			
1200 Lumen Series Modules												
538-180081-2320	180081-2320	3000K	82	24°	700	730	17.2	12.0	61	40.81	39.92	39.35
					1050	1040	17.9	18.8	56			
					1400	1330	18.5	25.8	51			
538-180081-2330	180081-2330	3000K	82	32°	700	730	17.2	12.0	61	40.81	39.92	39.35
					1050	1040	17.9	18.8	56			
					1400	1330	18.5	25.8	51			
538-180081-2350	180081-2350	3000K	82	50°	700	730	17.2	12.0	61	40.81	39.92	39.35
					1050	1040	17.9	18.8	56			
					1400	1330	18.5	25.8	51			
538-180081-4320	180081-4320	4100K	80	24°	700	840	17.2	12.0	70	40.81	39.92	39.35
					1050	1200	17.9	18.8	64			
					1400	1330	18.5	25.8	59			
538-180081-4330	180081-4330	4100K	80	32°	700	840	17.2	12.0	70	40.81	39.92	39.35
					1050	1200	17.9	18.8	64			
					1400	1330	18.5	25.8	59			
538-180081-4350	180081-4350	4100K	80	50°	700	840	17.2	12.0	70	40.81	39.92	39.35
					1050	1200	17.9	18.8	64			
					1400	1530	18.5	25.8	59			
Helieon Socket										1	5	10
80mm Socket Assembly										2.80	2.75	2.70

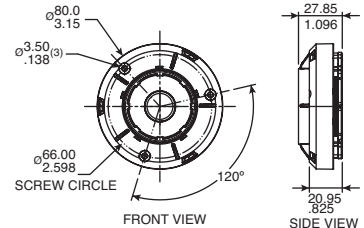
1. Lumen range is within ±10% of the nominal value. 2. Voltage range is within ±10% of the nominal value.

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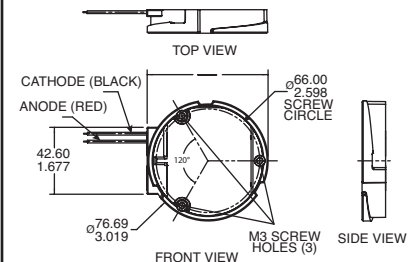
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Helieon Module



Helieon Socket



Mated Helieon System



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