

LEDENGIN Hi Power LEDs

LedEngin, Inc.

RoHS Compliant This product is RoHS compliant.

Compatible heat sinks can be found in our Thermal Management Section of this catalog.

LEDENGIN SOLID STATE LIGHTING

3 Watt Power LEDs

*Recommended Cooler Master Heatsink will need to be purchased separately.

MOUSER STOCK NO.	LedEngin Part No.	Fig.	Color	Wavelength (nm)	Luminous Flux (lm)	Power (W)	Voltage (VDC)	Current (mA)	Recommended Heatsink *	Price Each			
										1	10	50	100
897-LZ100R103	LZ1-00R103	A	Red	630	92	3.0	2.4	700	---	5.39	4.90	4.29	3.92
897-LZ100A103	LZ1-00A103	A	Amber	590	80	3.0	2.4	700	---	5.39	4.90	4.29	3.92
897-LZ100G103	LZ1-00G103	A	Green	523	125	3.0	4.2	700	---	6.60	6.00	5.25	4.80
897-LZ100B203	LZ1-00B203	A	Blue	465	35	3.0	3.4	700	---	6.05	5.50	4.81	4.40
897-LZ110R103	LZ1-10R103	B	Red	630	92	3.0	2.4	700	ECB-00529-01-GP	7.04	6.40	5.60	5.12
897-LZ110A103	LZ1-10A103	B	Amber	590	80	3.0	2.4	700	ECB-00529-01-GP	7.04	6.40	5.60	5.12
897-LZ110G103	LZ1-10G103	B	Green	523	125	3.0	4.2	700	ECB-00529-01-GP	7.70	7.00	6.13	5.60
897-LZ110B203	LZ1-10B203	B	Blue	465	35	3.0	3.4	700	ECB-00529-01-GP	7.70	7.00	6.13	5.60
Color Temp (K)													
897-LZ100NW03	LZ1-00NW03	A	Neutral White	3700-4750	145	3.0	3.4	700	---	6.05	5.50	4.81	4.40
897-LZ100CW03	LZ1-00CW03	A	Cool White	5000-10000	170	3.0	3.4	700	---	6.05	5.50	4.81	4.40
897-LZ110NW03	LZ1-10NW03	B	Neutral White	3700-4750	145	3.0	3.4	700	ECB-00529-01-GP	7.70	7.00	6.13	5.60
897-LZ110CW03	LZ1-10CW03	B	Cool White	5000-10000	170	3.0	3.4	700	ECB-00529-01-GP	7.70	7.00	6.13	5.60

5 Watt Power LEDs

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MOUSER STOCK NO.	LedEngin Part No.	Fig.	Color	Wavelength (nm)	Luminous Flux (lm)	Power (W)	Voltage (VDC)	Current (mA)	Recommended Heatsink *	Price Each			
										1	10	50	100
897-LZ100R305	LZ1-00R305	A	Far Red	735	310mW	5.0	2.4	1000	---	9.90	9.35	8.80	8.25
897-LZ100R205	LZ1-00R205	A	Deep Red	660	525mW	5.0	2.8	1000	---	9.90	9.35	8.80	8.25
897-LZ100R105	LZ1-00R105	A	Red	625	120	5.0	2.6	1000	---	7.11	6.72	6.32	5.93
897-LZ100A105	LZ1-00A105	A	Amber	590	105	5.0	2.6	1000	---	7.11	6.72	6.32	5.93
897-LZ100G105	LZ1-00G105	A	Green	523	165	5.0	4.5	1000	---	9.00	8.50	8.00	7.50
897-LZ100B205	LZ1-00B205	A	Blue	465	45	5.0	3.6	1000	---	8.10	7.65	7.20	6.75
897-LZ110R305	LZ1-10R305	B	Far Red	735	310mW	5.0	2.4	1000	ECB-00529-01-GP	11.70	11.05	10.40	9.75
897-LZ110R205	LZ1-10R205	B	Deep Red	660	525mW	5.0	2.8	1000	ECB-00529-01-GP	11.70	11.05	10.40	9.75
897-LZ110R105	LZ1-10R105	B	Red	625	120	5.0	2.6	1000	ECB-00529-01-GP	8.91	8.42	7.92	7.43
897-LZ110A105	LZ1-10A105	B	Amber	590	105	5.0	2.6	1000	ECB-00529-01-GP	8.91	8.42	7.92	7.43
897-LZ110G105	LZ1-10G105	B	Green	523	165	5.0	4.5	1000	ECB-00529-01-GP	10.80	10.20	9.60	9.00
897-LZ110DB05	LZ1-10DB05	B	Dental Blue	460	900mW	5.0	3.6	1000	ECB-00529-01-GP	21.19	20.01	18.83	17.66
897-LZ110B205	LZ1-10B205	B	Blue	465	45	5.0	3.6	1000	ECB-00529-01-GP	9.90	9.35	8.80	8.25
Color Temp (K)													
897-LZ100WW05	LZ1-00WW05	A	Warm White	2870-3700	150	5.0	3.6	1000	---	8.10	7.65	7.20	6.75
897-LZ100NW05	LZ1-00NW05	A	Neutral White	3700-4750	190	5.0	3.6	1000	---	8.10	7.65	7.20	6.75
897-LZ100CW05	LZ1-00CW05	A	Cool White	5000-10000	230	5.0	3.6	1000	---	7.11	6.72	6.32	5.93
897-LZ110WW05	LZ1-10WW05	B	Warm White	2870-3700	150	5.0	3.6	1000	ECB-00529-01-GP	9.90	9.35	8.80	8.25
897-LZ110NW05	LZ1-10NW05	B	Neutral White	3700-4750	190	5.0	3.6	1000	ECB-00529-01-GP	9.90	9.35	8.80	8.25
897-LZ110CW05	LZ1-10CW05	B	Cool White	5000-10000	230	5.0	3.6	1000	ECB-00529-01-GP	9.90	9.35	8.80	8.25

10 Watt Power LEDs, Independent Connected MCPCB

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MOUSER STOCK NO.	LedEngin Part No.	Fig.	Color	Wavelength (nm)	Luminous Flux (lm)	Power (W)	Voltage (VDC)	Current (mA)	Recommended Heatsink *	Price Each			
										1	10	50	100
897-LZ400R210	LZ4-00R210	C	Deep Red	660	1.65W	10.0	11.6	700	---	28.80	27.04	26.15	25.24
897-LZ400R110	LZ4-00R110	C	Red	625	350	10.0	9.7	700	---	24.00	22.50	21.00	20.25
897-LZ400G110	LZ4-00G110	C	Green	523	480	10.0	16.8	700	---	36.80	34.50	32.20	31.05
897-LZ400B210	LZ4-00B210	C	Blue	465	130	10.0	14.0	700	---	28.80	27.00	25.20	24.30
897-LZ400MD10	LZ4-00MD10	C	RGBW	625/523/460/---	87/120/32/160	10.0	2.44/2.3/3.5/5	700	---	21.03	20.30	19.58	18.85
897-LZ420R210	LZ4-20R210	D	Deep Red	660	1.65W	10.0	11.6	700	ECC-00500-01-GP	32.50	30.87	29.12	28.15
897-LZ420R110	LZ4-20R110	D	Red	625	350	10.0	9.7	700	ECC-00500-01-GP	27.20	25.50	23.80	22.95
897-LZ420A110	LZ4-20A110	D	Amber	590	200	10.0	10.1	700	ECC-00500-01-GP	27.20	25.50	23.80	22.95
897-LZ420G110	LZ4-20G110	D	Green	523	480	10.0	16.8	700	ECC-00500-01-GP	41.12	38.77	35.63	32.57
897-LZ420B210	LZ4-20B210	D	Blue	465	130	10.0	14.0	700	ECC-00500-01-GP	32.00	30.00	28.00	27.00
897-LZ420MC10	LZ4-20MC10	D	RGB	625/525/460	85/230/30	10.0	2.4/7.2/3.5	700	ECC-00500-01-GP	32.00	30.00	28.00	27.00
897-LZ420MA10	LZ4-20MA10	D	RGBA	625/525/460/590	85/115/30/60	10.0	2.4/3.6/3.5/2.5	700	ECC-00500-01-GP	32.00	30.00	28.00	27.00
897-LZ420MD10	LZ4-20MD10	D	RGBW	625/523/460/---	87/120/32/160	10.0	2.44/2.3/3.5/5	700	ECC-00500-01-GP	23.93	23.10	22.28	21.45
Color Temp (K)													
897-LZ400WW10	LZ4-00WW10	C	Warm White	2870-3700	440	10.0	14.0	700	---	28.80	27.00	25.20	24.30
897-LZ400NW10	LZ4-00NW10	C	Neutral White	3700-4750	520	10.0	14.0	700	---	28.80	27.00	25.20	24.30
897-LZ400CW10	LZ4-00CW10	C	Cool White	5000-10000	635	10.0	14.0	700	---	28.80	27.00	25.20	24.30
897-LZ420WW10	LZ4-20WW10	D	Warm White	2870-3700	440	10.0	14.0	700	ECC-00500-01-GP	32.00	30.00	28.00	27.00
897-LZ420NW10	LZ4-20NW10	D	Neutral White	3700-4750	520	10.0	14.0	700	ECC-00500-01-GP	32.00	30.00	28.00	27.00
897-LZ420CW10	LZ4-20CW10	D	Cool White	5000-10000	635	10.0	14.0	700	ECC-00500-01-GP	32.00	30.00	28.00	27.00

10 Watt Power LEDs, Serially Connected MCPCB

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MOUSER STOCK NO.	LedEngin Part No.	Fig.	Color	Wavelength (nm)	Luminous Flux (lm)	Power (W)	Voltage (VDC)	Current (mA)	Recommended Heatsink *	Price Each			
										1	10	50	100
897-LZ440R210	LZ4-40R210	E	Deep Red	660	1.65W	10.0	11.6	700	ECC-00531-01-GP	32.50	30.87	29.12	28.15
897-LZ440R110	LZ4-40R110	E	Red	625	350	10.0	9.4	700	ECC-00531-01-GP	27.20	25.50	23.80	22.95
897-LZ440G110	LZ4-40G110	E	Green	523	480	10.0	14.4	700	ECC-00531-01-GP	41.12	38.77	35.63	32.57
897-LZ440B210	LZ4-40B210	E	Blue	465	130	10.0	14.0	700	ECC-00531-01-GP	32.00	30.00	28.00	27.00
Color Temp (K)													
897-LZ440WW10	LZ4-40WW10	E	Warm White	2870-3700K	320	10.0	14.0	700	ECC-00531-01-GP	32.00	30.00	28.00	27.00
897-LZ440NW10	LZ4-40NW10	E	Neutral White	3700-4750K	400	10.0	14.0	700	ECC-00531-01-GP	32.00	30.00	28.00	27.00
897-LZ440CW10	LZ4-40CW10	E	Cool White	5000-10000K	550	10.0	14.0	700	ECC-00531-01-GP	32.00	30.00	28.00	27.00

LEDENGIN COLOR MIXING LENSES FOR 10 WATT LEDs

Specification:

- Excellent color mixing over the full color spectrum
- Designed specifically for 10W multi-color LEDs
- Compatible with Standard MCPCB assemblies
- Optical grade PMMA lens material allows use of high current and temperature conditions
- Epoxy or Polyurethane (not Superglue) can be used to fasten the holder to PCB

For quantities of 200 and up, call for quote.

MOUSER STOCK NO.	LedEngin Part No.	Fig.	Viewing Angle	Optical Efficiency	Color Mixing	Operating Temperature	Price Each			
							1	10	50	100
897-LLSP1T06H	LLSP-1T06-H	F	18°	90%	---	-40°C ~ +110°C	2.99	2.70	2.48	2.25
897-LLSP2T06H	LLSP-2T06-H	G	15°	50%	Superior	-40°C ~ +110°C	3.49	3.15	2.89	2.63

