



## LIGHTING SOLUTIONS

Power LEDs  
Top LEDs  
230VAC LEDs  
Heatsinks  
Lenses  
Customized solutions





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# AC Driven LEDs

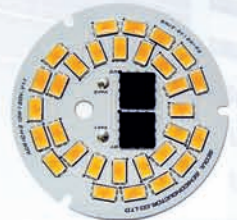
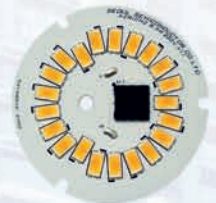
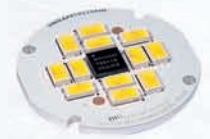


Acrich2 is an AC LED module technology using a high efficient Acrich IC.

Acrich2 is ideal for applications that require size constraints, aesthetic design and a cost efficient lighting system. Acrich2 will relieve lighting customers' headache of designing an additional AC-DC converter and will make the lighting system extremely compact with excellent performance.

## Electro-Optical Characteristics

Series	Color	Size	Part No.	Voltage [V]	Voltage [V] (max)	Power [W]	PF	Flux [lm]		CCT[K]	CRI
								Min.	Typ.		
4W (Bulb)	Cool White	ø33mm	SMJE-3V04W1P3	220	264	4,3	Min. 0.95	320	350	5600	Min. 80
	Natural White							320	350	5000	
	Warm White							310	340	4000	
	Warm White							300	330	3000	
8W (Bulb)	Cool White	ø46mm	SMJE-3V08W1P3	220	264	8,7	Min. 0.95	640	680	5600	Min. 80
	Natural White							650	700	5000	
	Warm White							600	640	4000	
	Warm White							590	630	3000	
12W (Bulb)	Cool White	ø50mm	SMJE-3V12W1P3	220	264	13	Min. 0.95	980	1030	5600	Min. 80
	Natural White							980	1030	5000	
	Warm White							920	960	4000	
	Warm White							910	940	3000	
16W (Down light)	Cool White	ø70mm	SMJD-3V16W1P3	220	264	17,5	Min. 0.95	1380	1450	5600	Min. 80
	Natural White							1380	1450	5000	
	Warm White	1300	1340	4000							
	Warm White	1260	1300	3000							
	Warm White	ø100mm	SMJD-3D16W2P3	220	264	17	Min. 0.97	1350	1380	2700	
								SMJD-3V16W2P3	1360	1390	
Cool White							1420	1460	5000		



# AC driven LEDs



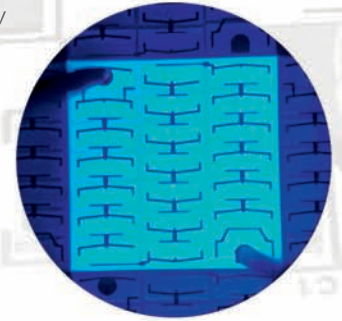
SEOUL SEMICONDUCTOR

**MJT**  
Multi Junction Technology

MJT- Multi Junction Technology

- Minimize the components
- Lower the system cost
- Competitive Lm/W

Seoul semiconductors unique and patented MJT will provide you with unbeatable cost benefits and high reliability versus conventional chip array packages.



## Electro-Optical Characteristics

Series	Color	Part No.	Size [mm]	VF [V]	Φv[lm]	Iopt[mA]	CCT	2θ[°]	CRI
MJT 3528	Warm White	SAW8WA2A	3.5*2.8*0.6	32.5	110	40	2600-3700	120	82
	Cool White		3.5*2.8*0.6		120		3700-7000		
MJT 5630	Warm White	SAW8KG0A	5.6*3.0*0.75	19	35	20	2600-3700	115	82
	Cool White				40		3700-7000		
	Warm White	SAW8KG0B	5.6*3.0*0.75	22	49	2600-3700			
MJT 6540	Cool White	SAW8P42A	6.5*4.0*0.80	13	53	20	3700-7000	115	83
	Cool White				30		3700-7000		



Acrich series is designed for AC source operation and high flux output applications. Acrich is a semi-permanent and environmental semiconductor lighting that can be powered by AC source, without additional power supplies.

Acriches thermal management perform exceeds other power LED solutions. It incorporates state of the art SMD design and Thermal emission material. Acrich is an ideal light source for general illumination applications.

Series	Color	Part No.	Size [mm]	VF [V]	Φv[lm]	Iopt[mA]	CCT	2θ[°]	CRI	
A3	Warm White	AN3221	30*30*8.1	220	220	20	2600-3700	130	80	
	Warm White	AN3231			230		220		2600-3700	80
	Cool White	AW3221			220		330		4700-8200	65
	Cool White	AW3231			230		330		4700-8200	65
	Warm White	AN3220	18.5*12*6.5	220, 230	220		2600-3700		80	
	Cool White	AW3220			330		4700-8200		65	
A4	Cool White	SAW04A0A	7.0*7.0*2.95	55	90	20	4700-8200	145	70	
	Warm White	SAW84A0C			65		2600-3700	135	80	
A5	Cool White	SAW05D0A	7.0*7.0*2.95	220, 230	120	10	4700-8200	145	70	
	Warm White	SAW85D0A			80		2600-3700	135	80	
A7	Cool White	SAW07D0A	8.0*8.0*3.7	220, 230	360	20	4700-8200	130	70	
	Warm White	SAWW7D0A			260		2600-3700		80	
A8	Warm White	SAWW8D1A	25.0*25.0*2.0	220	800	60	2600-3200	120	80	



WE PRESENT POPULAR PRODUCTS, WHICH ARE ONLY A SMALL PART OF OUR SUPPLIERS COMPREHENSIVE PORTFOLIO

# TOP-VIEW LEDs



TOP View LEDs are successfully used in broad range of applications, from lighting to automotive. Wide range of possible colors and sizes can provide various kinds of lighting solutions upon customers demand. Seoul Semiconductors new 3030 series can be driven at as twice as high current up to 150mA. Consequently, it can deliver market leading lumen output over 100lm. Along with MacAdam 3 Step binning, 3030 is offered in a full CCT range from 2850K to 7000K with min. CRI 80. New 3030 series are ideal for Omni Directional Lamps with compact size, superior lumen output and market leading reliability.

Able to operate at 150mA
High Reliability
Best Cost Performance
McAdam 3 step@3000K
Optimized for A19 and Down light
Less LED per bulb




## Electro-Optical Characteristics

Part No.	STW8C2SA			
PKG SIZE	3.0*3.0*0.65			
Chip	2 Chip			
Watt	0.6W	1W	0.6W	1W
CCT	5000K		3000K	
FLUX [lm]	72.6	102	66.1	93.4
VF [V]	6.3	6.6	6.3	6.7

# 5630C

Cost Competitive High lm/W [Max 140lm/W]
Best reliability in the industry
Max current up to 160mA
0.3~0.5W single Chip Package
High CRI solutions [min CRI 90]
Energy star binning
MacAdam 3 step binning [2600-3200K]
Optimized for Bulb lighting Solution



## Electro-Optical Characteristics

Part No.	CCT	Luminous Intensity [cd]	Φv [lm]	Forward Voltage [V]	Luminous Efficacy [lm/W]	CRI Min	IF [mA]	Thermal Resistance [RθJ-C, °C/W]
STW8Q14C	5000K	13.6	42.2	3.15	134	80	100 (max.160)	18
	3000K	12.7	39		120			
STW9Q14C	3000K	10.2	30.9		98	90		

# TOP-VIEW LEDs



SEOUL SEMICONDUCTOR



## Top View LED (White)

Part No.	Color	Size [mm]	VF [V]	Iv[mcd]	Iv[mcd] max	CCT[K]	IF [mA]	IF [mA] (max)	2θ[°]	CRI
STW9B12C	White	3.0*2.0*0.6	3.2	11300	-	2600-4200	100	120	120	Min.90
STW8B12B	White	3.0*2.0*0.6	3.05	5050	-	2600-7000	40	80	120	Min.80
STW8B12C	White	3.0*2.0*0.6	3.15	11350	-	2600-7000	100	120	120	Min.80
C9WT821	White	3.2*2.8*1.9	3.3	4500	-	2600-7000	60	90	120	Typ.92
SWT821-S	White	3.2*2.8*1.9	3.2	5500	-	4800-12000	60	90	120	-
STW0G16AG	White	3.2*2.8*1.9	3.2	9000	11200	X 0.33 ,Y 0.33 (CIE)	140	200	120	-
STW7T16A	White	5.0*5.0*1.4	3.1	7500	-	4700-7000	60	90	120	Typ.75
STW8T16A	White	5.0*5.0*1.4	3.1	6800	7500	3700-7000	60	90	120	Min.80
STW8T36B	White	5.0*5.0*1.4	3.2	6600	-	2600-8200	60	90	120	Min.80
STW9T36B	White	5.0*5.0*1.4	3.2	6000	-	2600-8200	60	90	120	Min.90
STW8Q14C	White	5.6*3.0*0.75	3.15	13600	-	2600-7000	100	160	120	Min.80
STW9Q14C	White	5.6*3.0*0.75	3.15	10200	-	2600-4200	100	160	120	Min.90
STW9Q14B	White	5.6*3.0*0.9	3.2	9500	-	2600-500	100	160	120	Min.90
STW8Q14BE	White	5.6*3.0*0.9	3.2	12000	-	2600-7000	100	160	120	Min.80
STW8Q2PA	White	5.6*3.0*0.9	3.2	10500	-	2600-7000	100	160	120	Min.80
STW0Q14A	White	5.6*3.0*0.9	3.2	5200	-	8300-15000	60	80	120	-
STW0Q2PA	White	5.6*3.0*0.9	3.2	11000	-	4700-7000	100	160	120	-
SWT805-S	White	3.0*2.0*0.8	3.2	1900	2500	6300-30000	20	30	115	65
KWT803-S	White	3.0*2.0*1.2	3.2	2100	2500	5300-8900	20	30	115	Min.60
C8WT803	White	3.0*2.0*1.2	3.2	1800	2300	2600-7000	20	30	115	Min.80
C9WT803	White	3.0*2.0*1.2	3.2	1500	2000	2600-7000	20	30	115	Min.90
ELWT801-S	White	3.2*2.8*1.9	3.4	840	1120	-	20	30	120	-
EWT801-S	White	3.2*2.8*1.9	3.4	1680	2240	-	20	30	120	-
AWT801-S	White	3.2*2.8*1.9	3.3	1600	-	2700-4500	20	30	120	-

## Top View LED (Color)

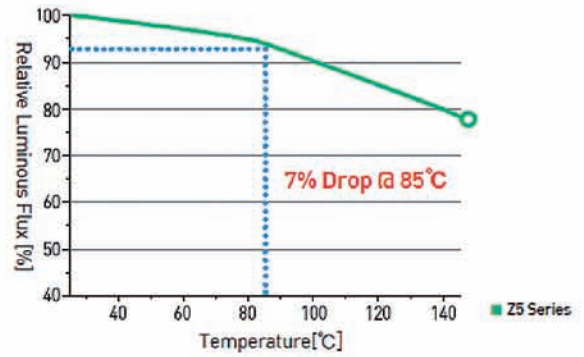
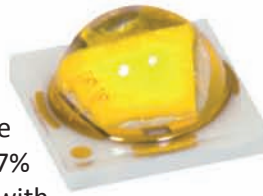
Part No.	Color	Size [mm]	VF [V]	Iv[mcd]	Iv[mcd] max	λd[nm]	IF [mA]	IF [mA] (max)	2θ[°]
YGURHT811-BS	Yellow Green / Red	3.2*2.8*1.9	2.1	50	70	570	20	30	120
	Red		1.9	30	40	640			
SAT802-S	Amber	3.2*2.8*1.9	2.4	1800	2240	616	50	70	120
STROG16AH	Red	3.0*3.3*1.9	2.2	5600	7100	616	140	200	120
SFT825N-S	Full Color	3.5*2.8*1.4	2.1	700	1100	623	20	30	120
			3.2	1200	1600	527			
			3.2	400	560	460			
SFT825Z-S	Full Color	3.5*2.8*1.4	2.1	700	1100	623	20	30	120
			3.2	1200	1600	527			
			3.2	400	560	460			
SFT722N-S	Full Color	6.0*5.0*2.5	2.1	700	1100	623	20	30	120
			3.2	1200	1600	527			
			3.2	200	560	460			
ERT801-S	Red	3.2*2.8*1.9	2	90	130	635	20	30	120
LUYT801-S	Yellow	3.2*2.8*1.9	2.1	130	210	587	20	30	120
FAT801-S	Amber	3.2*2.8*1.9	2.2	220	320	606	20	30	120
UYGT801-S	Yellow Green	3.2*2.8*1.9	2.1	90	105	572	20	30	120
UPGT801-S	Green	3.2*2.8*1.9	2.2	17	36	562	20	30	120
MBT801-S	Blue	3.2*2.8*1.9	3.2	335	600	470	20	30	120
MIBT801-S	Iceblue	3.2*2.8*1.9	3.2	700	1100	0.205/0.325	20	30	120
IBT801-S	Skyblue	3.2*2.8*1.9	3	90	140	0.21/0.31	10	30	120
MSBT801G-S	Skyblue	3.2*2.8*1.9	2.9	90	110	0.15/0.07	10	30	120
USBT801G-S	Skyblue	3.2*2.8*1.9	2.9	50	90	0.15/0.07	10	30	120

WE PRESENT POPULAR PRODUCTS, WHICH ARE ONLY A SMALL PART OF OUR SUPPLIERS COMPREHENSIVE PORTFOLIO

# POWER LEDs

## Excellent Hot Lumen Maintenance of Z5 Series

Z5 Series, Worlds leading High Power LED have excellent Hot Lumen maintenance. It shows only 7% of luminous flux drop at 85°C and even available with a color rendering index(CRI) of 90.



- LM80
- AEC-Q101
- ANSI compliant
- RoHS compliant:

Series	Part No.	Color	VF [V]	Φv [lm]	Wavelength [nm]	CRI[Typ]	IF [mA]	IF [mA] (max)	2θ[°]
Z5M	SZ5-M0-W0-00	Cool White	3.1	145	6000	70	350	1200	120
	SZ5-M0-W0-C8 <sup>®</sup>	Cool White	3.1	128	6000	min80	350	1200	120
	SZ5-M0-WN-00 <sup>®</sup>	Natural White	3.1	139	4000	67	350	1200	120
	SZ5-M0-WN-C8	Natural White	3.1	132	4000	min80	350	1200	120
	SZ5-M0-WW-C8	Warm White	3.1	122	3000	min80	350	1200	120
	SZ5-M0-WW-C9 <sup>®</sup>	Warm White	3.1	100	3000	min90	350	1200	120
Z5P	SZ5-P0-W0-00	Cool White	3.2	137	6000	70	350	1000	120
	SZ5-P0-WN-C8	Natural White	3.2	127	4000	min80	350	1000	120
	SZ5-P0-WN-00	Natural White	3.2	130	4200	65	350	1000	120
	SZ5-P0-WW-C8	Warm White	3.2	112	3000	min80	350	1000	120
	SZ5-P0-WW-85	Warm White	3.2	94	3000	min85	350	1000	120
Z5	SZW05A0B	Cool White	3.3	125	6000	70	350	700	120
	SZWN5A0B	Natural White	3.3	115	4200	min80	350	700	120
	SZWW5A0B	Warm White	3.3	100	3000	min80	350	700	120
	SZW05A0A	Cool White	3.3	105	6300	70	350	700	120
Z5	SZR05A0A	Red	2.4	60	625		350	700	123
	SZG05A0A	Green	3.3	110	525		350	700	128
	SZB05A0A	Blue	3.3	28	460		350	700	128
	SZA05A0A	Amber	2.3	54	592		350	700	123

## Z6 & Z7



The Z-Power LED Z6 series also includes full-color LED products which can create red/green/blue and even white lights. In particular, the 4 LED chips in the Z6 package are individually operable in red, green, blue and white (1W each). If they are operated at the same time, the white color (4W) can be created in diverse color temperatures (pure, warm and neutral). In addition, Z6 series offers diversity of designs by comprising the four LED chips with independent circuits.

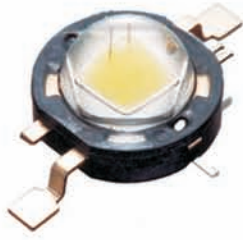
The Z-Power LED Z7 series (4W) is a high-brightness white LED made of special ceramic PCB. It offers 5,500K color temperature and 440lm brightness. In particular, the Z series offers an ultra-small package (9x7x3.2mm) for easy application to diverse indoor and outdoor lighting products. And most important - it's interchangeable with Z6.

Series	Part No.	Color	VF [V]	Φv [lm]	Wavelength [nm]	CRI[Typ]	IF [mA]	2θ[°]
Z6	SZFP6F0A	Full Color	2.3	38	R: 625	70 (CRI)	350/chip	120
			3.4	90	G: 525			
			3.4	16	B: 460			
			3.4	80	W: 5300(CCT)			
Z5P	SZFP7F0A	Full Color	2.2	60	R: 625	70 (CRI)	350/chip	120
			3.3	100	G: 525			
			3.2	18	B: 455			
			3.2	115	W: 5600(CCT)			
Z7	SZW07A0A	Cool White	3.2	530	6000	70	1400	130
	SZWW7A0A	Warm White	3.2	385	3000	min80	1400	130

# POWER LEDs



**P4**



Z-Power LED P4 series is designed with Seoul Semiconductor's own phosphor and packaging technology. The P4 emits 240 lm at 1 A of light and features the industry's highest luminous efficacy (100 lm/W @ 350 mA at the maximum) with only a single die.

Series	Part No.	Color	VF [V]	Φv [lm]	CCT[K]	CRI[Typ]	IF [mA]	IF [mA] (max)	2θ[°]	Type
P4	W42180-07	Cool White	3.3	108	6300	73	350	1000	127	Emitter
	W42180-08	Cool White	3.3	110	6000	70	350	1000	123	Emitter
	W42182-08	Cool White	3.3	110	6000	70	350	1000	123	Star
	W49180-07	Cool White	3.3	113	6300	73	350	800	95	Narrow, Emitter
	W49180-08	Cool White	3.3	113	6300	73	350	800	95	Emitter
	S42180-08	Natural White	3.3	88	4000	91	350	700	123	Emitter
	S42182-08	Natural White	3.3	88	4000	91	350	700	123	Star
	N42182-08	Warm White	3.3	84	3000	91	350	700	123	Emitter
	S42182-08	Natural White	3.3	98	4000	min80	350	700	123	Star
	N42180-08	Warm White	3.3	84	3000	91	350	700	123	Emitter
	N42180H-08	Warm White	3.3	93	3000	min80	350	700	123	Emitter
	R42180	Red	2.3	48	625	-	350	800	130	Emitter
	G42180	Green	3.25	70	525	-	350	1000	130	Emitter
	B42180	Blue	2.25	22	465	-	350	800	130	Emitter
	A42180	Amber	2.3	48	590	-	350	800	130	Emitter

**P5-II**



Z-Power series is designed for high current operation and high flux output applications. Z-Power LED's thermal management perform exceeds other power LED solutions. It incorporates state of the art SMD design and Thermal emission material.

Full color Z-Power LED uses 3 RGB power chips and isolated thermal slug.

In case of the full color product used in architectural lighting or decoration, it emits 7 colors in one package so that it can render a clear mixed color.

Series	Part No.	Color	VF [V]	Φv [lm]	Wavelength [nm]	IF [mA]	IF [mA] (max)	2θ[°]
P5-II	F50360	Full Color	2.5	35	625	350	400	120
			3.8	57	525	350	400	120
			3.6	13	460	350	400	120

A Japanese manufacturer of high quality and special color LEDs. The perfected phosphor mixing techniques, environmental robustness and reliability make these products perfect for special applications. High CRI for medical and other professional applications, dedicated colors for food lighting and high efficiency for industrial applications.



Color	Power	Chromacity coordinates		Flux (lm)@1W	CCT	
PURPLISH PINK	up to 2W	x=0.340	y=0.250	70	N/A	
YELLOWISH PINK	up to 2W	x=0.376	y=0.323	90	3700K	
ICE BLUE	up to 2W	x=0.230	y=0.273	110	N/A	
PALE BLUE	up to 2W	x=0.290	y=0.230	80	16800K	
VIOLET	up to 2W	x=0.337	y=0.319	100	5400K	
WARM WHITE	up to 2W	x=0.488	y=0.414	105	2400K	
DEEP WARM WHITE	up to 2W	x=0.527	y=0.413	90	2000K	
COOL WHITE	up to 2W	x=0.345	y=0.355	160	5000K	
WHITE	1W (2x3V chip)	According to bin selection		120@170mA	3000K 5000K	

OTHER COLORS AND CCT AVAILABLE FOR 3J AND 6J LEDs



**BRIGHTTEK**  
BRIGHTTEK (EUROPE) LIMITED

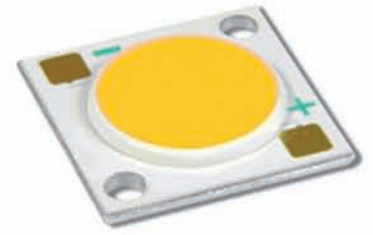
Brighttek is a Taiwanese manufacturer of lighting solutions, developing LEDs since 2001.

With a wide portfolio of LEDs Brighttek can offer a product for any application.

- From THT Lamps to Power Arrays
- From High Flux to High Power
- Price competitive LEDs and solutions

The ZC series is a High Flux and High Efficacy COB (Chip On Board) series designed for easy attachment to lighting fixtures - directly without any reflow process.

The thermal management performance exceeds other high power LED solutions. Due to the small size of COB light source, it is easier to make an Omni Directional bulb. COB eliminate shadow effect, while multiple light sources of SMD packages cause many shadows. Since there is no Ag metal in Seoul Semiconductors COB, there occur no color changes caused by SO<sub>2</sub> and H<sub>2</sub>S.



Series	Part No.	Color	V <sub>F</sub> [V]	Φ <sub>v</sub> [lm]	CCT[K]	CRI[Typ]	I <sub>F</sub> [mA]	I <sub>F</sub> [mA] (max)	Thermal resistance Rθ <sub>j-s</sub> [K/W]	Junction Temperature [°C]
ZC6	SBWW1F1A	Warm White	26	635	2700	Min. 80	270	115	2.6	120
ZC10	SBWW2F1A	Warm White	26	990	2700	Min. 80	420	115	1.7	120
ZC16	SBWW4F1A	Warm White	28	1430	2700	Min. 80	540	115	1.2	120
ZC40	SBWW5F1A	Warm White	38	3720	2700	Min. 80	1000	115	0.4	120
ZC6	SBW01F1A	Cool White	26	785	5000	Min. 70	270	125	2.6	120
ZC10	SBW02F1A	Cool White	26	1230	5000	Min. 70	420	125	1.7	120
ZC16	SBW04F1A	Cool White	28	1765	5000	Min. 70	540	125	1.2	120
ZC40	SBW05F1A	Cool White	38	4940	5000	Min. 70	1000	125	0.4	120

## DESIGN SUPPORT

Microdis Electronics also offers custom designed LED lighting solutions. The idea is all the customer has to have. Our team of engineers will put that idea into a real product. Our offer includes LED strips, custom designed LED lamps, waterproof LED lighting for bathtubs or showers, including a capacitive touchpanel, and many others.



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# ACCESSORIES

## Heatsinks



LEDs, with their high performance and long life, are growing exponentially in popularity. This tendency is even enhanced by the increasing efficiency and falling prices. However, to make the best possible use of all the benefits offered by LEDs, efficient thermal management is indispensable. To meet this requirement, Fischer Elektronik has developed a special product range: heatsinks for LED applications. In addition to a number of star-type heatsinks with different diameters and contours, it comprises, among other things, pin heatsinks, miniature cooling aggregates and case elements for accommodating LED line modules. Modified heatsink variants and versions specially adapted to customized LED applications are manufactured according to customers' specifications using advanced CNC machining centres or through extrusion. The LEDs are fastened using double-sided, thermally conductive adhesive, screw fastening or solderable surface coatings.



For exact part numbers please refer to the Fischer Elektronik [f.cool.d](http://f.cool.d) catalogue.

## Lenses

Lenses in many diameters and heights. Manufactured also in NJC™ Technology. Available in Narrow, Medium, Elliptical and wide Beams. Holders available in white, black and clear color. High efficiency, no vibration problems.



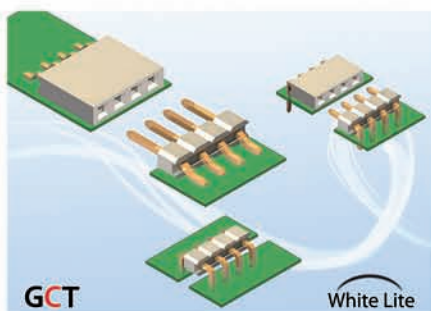
## Connectors for LED applications

### White Lite- Low cost PCB connector solution for Solid State Lighting

White Lite is aimed at LED strip applications; perfectly aligning centre lines of horizontal mating printed circuit boards. Available in both SMT or through hole with 2-6 contacts as a two piece or as a through hole single piece solution with an innovative U-shaped connector design.

U-shaped connectors are an economical option and allow connections where access from above the PCB is the only option. U-Shaped connectors can be either soldered direct to the PCB or plugged into vertical PCB sockets.

LCP insulators are natural colored to reduce light absorption not only providing better aesthetics but also a resistance to high process temperatures.



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Currently the Microdis Group employs over 100 people, with a large number of electronic engineers, mostly involved in sales and marketing.

As a company with an extensive experience in the distribution of electronic components, and a logistics center in Germany for many years, we are able to offer almost any product from a wide variety of electronic components. We offer also the production of cable harnesses and programming of crystal oscillators for a customised frequency. Cooperation with a catalogue distributor provides fast deliveries (2 days) of a wide range of catalogue products.

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**GSM/UMTS**

**GPS**

**LED**

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