LED STRIPS















CRI



CATALOG More than light



LIGHT





COB STRIP LIGHTS



The NEW COB Strip



- Dotless lighting performance
- 180° beam angle
- DC24V, 12V
- Red, Green, Blue & White color
- 528&320 chips per meter
- Special connectors

	QTY/M	Voltage	W(mm)	Segment	W/M	Lm/M	Lm/W
	528	24	10	45.45	10	/	/
	528	24	10	45.45	10	/	/
	528	24	10	45.45	10	/	/
+2/34) (8)	528	24	10	45.45	10	1100	110
atom activ	528	24	10	45.45	15	1650	110
-000e 60	528	24	10	45.45	10	1100	110
di (tri	320	24	8	100	8	880	110
-distance Ref	528	12	10	22.73	10	1100	110
al in the	528	12	10	22.73	15	1650	110
000 et al.	528	12	10	22.73	10	1100	110
-di (se	320	12	8	50	8	880	110

2110 STRIP LIGHT

2110 SERIES

New design 2110 SMD, stronger frame and durable CRI90+, R9>80, good light quality 7 LED per unit, high efficient design.



ltem NO.	Photo	QTY/M	Voltage	W(mm)	Segment	W/M	Lm/M	Lm/W
M70208		70	24	8	100	4.8	432	90
M70208		70	24	8	100	7.2	648	90
M140208	** > > ** > <mark>**</mark> > > * > > > > > > >	140	24	8	50	9.6	864	90
M140208	•• • • • • • • • • • • • • • • • •	140	24	8	50	14.4	1296	90
M280210		280	24	10	25	19.2	1728	90
M350210		350	24	10	20	24	2160	90
M700210	X X X X X X X X X X X X X X X X X X X	700	24	10	10	18	1620	90
	2835 STRIP LIG	ΗT						
B30108		30	12	8	100	7	630	90
B48108		48	12	8	62.5	11	990	90

16 8

C C C

B60208

B60108-G

	30	12	8	100	7	630	90
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	48	12	8	62.5	11	990	90
	60	24	8	100	13	1170	90
	60	12	8	50	13	/	/

2835 SERIES

The best selling series EVER, 2835 LED with LM80 Various Items, Full Covering Max Ra97 available.



10-

EISEN CANES

2835 STRIP LIGHT

ltem NO.	Photo	QTY/M	Voltage	W(mm)	Segment	W/M	Lm/M	Lm/W
B60210-CC2		60	24	10	100	5	470	94
B78108		78	12	8	38.5	14	1260	90
B78208		78	24	8	77	14	1260	90
B84110		84	12	10	35.7	16	1440	90
B96210	E ERE ERE FIE ERE ERE E	96	24	10	62.5	17	1530	90
B120210	i dadi ilali T <mark>i</mark> ji dadi dadi Tij	120	24	10	50	20	1800	90
B120212		120	24	12	50	20	1800	90
B140210	(j 200 2 200 j i (j 200 2 20	140	24	10	50	20	2500	125
B160212		160	24	12	50	16	2240	140
B168205		168	24	5	41.66	10	800	80
B224212		224	24	12	31.2	22	2310	105
B240212		240	24	12	25	22	2090	95
Color Option	ns: 🗖 Red 🗖 Green 🗖 Blue		UV					

The Process of LED Strip Production



Item NO.	Pi	hoto		QTY/M	Voltage	W(mm)	Segment	W/M	Lm/M	Lm/W
A120205		i (1		120	24	5	50	8	640	80
A140203		(#) (<u>-</u> +34000)	[新][]	140	24	3.5	50	4	360	90
A180208	t <mark>alle</mark> sols sols a	1 1 1 1 1 1 1 1 1 1	HO DE	180	24	8	33.3	12	960	80
A224205				224	24	5	31.3	8	720	90
A240210		reermee	CHI IN	240	24	10	25	18	1440	80
A240208	C (1)5 (1)1 (C (1)5 (1)5			240	24	8	25	14	1120	80
A280210			100 100 100 100 100 100 100	280	24	10	25	18	1620	90
A280210D			11111	280	24	10	50	18	1620	90
A560212) () () () () () () () () () () () () () () () () (560	24	12	25	20	2000	100
A840215				840	24	15	25	19	1900	100
	GR	REAT W	all st	RIF)					
B120206-G				120	24	6	50	10	800	80
Color Opti	ons: 🗖 Red	Green	Blue		IUV					

2216 SERIES STRIP LIGHT



HIGH EFFCIENCY

Energy-Saving More brightness with less power consumption.





RGB+2IN1CCT

5 Colors MiLight Controller.



3014 SIDE VIEW

Brighter than 335/315 SMD.





LED LINEAR MODULE SERIES



HIGH EFFICIENCY SERIES

QTY/M	Voltage	W(mm)	Segment	W/M	Lm/M	Lm/W
64	24	10	125	6.4	960	150
128	24	10	62.5	12.8	1920	150
224	24	10	35.71	22.4	3360	150

FUNCTIONAL SERIES

	60	24	15	166.67	13	/	/
X	120	24	6	50	9	810	90
-1-12	120	24	10	50	18	28	504

 32	24	20	140	14.4	145	2088
48	36	20	140	21.6	145	3132
64	48	20	140	28.8	145	4176



UV

LINEAR LIGHTS

Super Brightness Good light distributions by new design. 4500+Lm



NEW DESIGN

a photo where the state is

Reasonable Arrangement Holes for cable coming out No dots on cover

792LEDs/M

Ultra brightness High density Good for light source

source

Item NO. Photo F120220 F240215 F240215 F280220 a se al es al a se al a se al se 0::0::0::0:: B320230 AN ORE PAR ORE THE ORE PAR ARE ALL AND B420230 -m: 15 B480240 -----B792222 A840215

LINEAR LIGHT SERIES

	QTY/M	Voltage	W(mm)	Segment	W/M	Lm/M	Lm/W
	120	24	20	50	24	1920	80
	240	24	15	50	24	2040	85
	240	24	15	50	19.2	1440	75
	280	24	20	50	30	3600	120
	320	24	30	25	28	3640	130
	420	24	30	33.33	35	4200	120
21 and (2)	480	24	40	50	34	4420	130
	792	24	22	22.7	52	5200	100
	840	24	15	25	19	1900	100



SINGLE COLOR SERIES

ltem NO.	Photo	QTY/M	Voltage	W(mm)	Segment	W/M	Lm/M	Lm/W
D60108		60	12	8	50	4.2	294	70
D60108-R		60	12	8	50	4.2	/	/
D60108		60	12	8	50	4.2	294	70
D60208		60	24	8	100	4.2	294	70
D78108		78	12	8	38.4	6.2	434	70
D78208		78	24	8	76.9	6.2	434	70
D120108		120	12	8	25	9.6	672	70
D120208		120	24	8	50	9.6	672	70
D240210		240	24	10	25	19.2	1344	70
D240212		240	24	12	25	19.2	1344	70
	315/335 SIDE VIE\	NS	ERI	ES				
H140210	- foresterest	140	24	10	50	9.6	672	70
H140210-CCT	There are a second	140	24	10	100	9.6	672	70
160108	୍≑ନେଅନ ଦ≜ନଅନ ନ(60	12	8	50	4.8	336	70
1120108	Vati Mari Mati Mari Mari Mari Mari Mari Vali and Antonio Mari Mari Mari Mari	120	12	8	25	9.6	336	70
Color Optio	ns: 📕 Red 📕 Green 🗖 Blue		UV					

LED STRIPS INSTALLATION GUIDE



1 Dry the position to be flat and smooth before putting on the strips.



2 LED tape can be cut only between soldering pads.



3 Solder wires on soldering pads (label +/-). The solder temperature may not exceed 350°C for maximum duration of 2 seconds.



4 You can also connect strips using LED tape connectors.



5 LED tapes are bendable. Minimum bend radius is 30 mm.



6 LED tapes cannot be bent or twisted in the demonstrated directions.

8 Press the LED tape electronic components to stick it to the surface. electronic components.

10

Keep the LED tape on the reel while applying it onto the surface. Remove the adhesive tape and apply the tape while unrolling the reel at the same time.

5050 SINGLE COLOR SERIES





(**0**;;;o)

Ē < 75℃

 \bigcirc Remove the adhesive tape from the back side of the LED tape.

9

with similar thermal

exceed 75°C.

overheating and ensure

proper heat dissipation.





LED tapes must be installed on aluminum (or material conduction) to avoid LEDs Measure TC temperature after 30 minutes of operation. TC temperature should not

	QTY/M	Voltage	W(mm)	Segment	W/M	Lm/M	Lm/W
	30	12	10	100	7	546	78
88 [48	12	10	62.5	11	858	78
	48	24	10	100	11	858	78
	60	12	10	50	14	1092	78
••	60	12	10	50	14	1092	78
	72	24	10	83.3	16	1248	78
• 8• 13•	96	24	13.5	62.5	23	1794	78

5730 SINGLE COLOR SERIES

e3400	36	12	10	166.6	9	837	93	
I LE	60	24	10	50	15	1395	93	
	60	12	10	100	15	1395	93	
	60	24	12	100	18	1620	90	
	72	24	12	83.3	20	1760	88	



SMD 6060 LENS

Big viewing angle Perfect light distribution for light box

10 m 10 m



SUPER DENSITY

Ra>90 Up to 700LEDs on single meter Dotless for aluminum profiles



x_ 4



ULTRA SLIM SERIES

A140203	
B78103	1 KUS 1 (* 1955 1 KUS 1
B60104	
B120205	10 (ki ki ki (10 11 (
B168205	
G70205-CC	
A224205	
Color On	tions: 🗖 Red 🗖 Green

160° BEAM ANGLE SERIES

	QTY/M	Voltage	W(mm)	Segment	W/M	Lm/M	Lm/W	
4) -1	10	12	8	100	6	85	510	
	20	12	8	50	9	85	765	
1 -	14	12	10	71	12	85	1020	
(i) 1	28	12	10	36	18	85	1530	

1-2490E	140	24	3.5	50	4	360	90
ant 1	78	12	3.5	38.4	4	360	90
	60	12	4.5	50	5	450	90
E E E E E	120	24	5	50	7	630	90
	168	24	5	41.6	8	840	105
<u>. 1</u> 2	70	24	5	100	7	630	90
	70	24	5	100	7	630	90

Blue

UV

Max 50m Running

Designed with IC for long run Low current, low heat, no brightness drop.





NEW SIDE VIEWING SERIES



SUNLIGHT SERIES



Double Side

3014 Side Emitting 020 RGB side emitting, both 24V and 5V available



Best Light

True Saturated Color Low 450nm High 480nm



48V SERIES

	QTY/M	Voltage	W(mm)	Segment	W/M	Lm/M	Lm/W
1 1 4	72	48	10	83	4.3	95	409
iet (1)	112	48	10	125	7	107	749
	150	48	10	100	9.6	115	1104

	120	24	5	50	10	85	850
5 5	60	5	10	17	8	22	176
	60	24	6	100	6	23	138

9 9 53	70	24	10	100	12	85	1020
11111	140	24	10	50	18	83	1530
• •	70	24	10	100	12	85	996
	140	24	10	50	18	83	1494

COLOR RENDERING INDEX

CRI>80



Standard LED CRI Values CRI>80



CRI>95+



Premium LED CRI Values CRI>95+



<u>CRI 95+</u>

The CRI is higher, and the color is more natural. Full range of WISVA LED are with CRI >95, presenting the true color for you.



Item NO.	Photo	QTY/M	Voltage	W(mm)	Segment	W/M	Lm/M	Lm/W
B60210-21		60	24	10	100	12	840	70
B60210-25		60	24	10	100	12	852	71
B60210-30		60	24	10	100	12	864	72
B60210-35	<u></u>	60	24	10	100	12	876	73
B60210-40		60	24	10	100	12	888	74
B60210-62		60	24	10	100	12	900	75
2100K	3050K							
20 <mark>00K •</mark>	• 3000K• • 4000K• 5000K	6000	K•	700)OK 8	30001	<	
	2550K 3550K 4050K		62001	<				
F60210-21		60	24	10	100	14	1022	73
F60210-25	ie I 💽 I 💽 I 💽 I 💽 I 💽	60	24	10	100	14	1036	74
F60210-30	ie i i i i i i i i i i i i i i i i i i	60	24	10	100	14	1050	75
F60210-35		60	24	10	100	14	1064	76
F60210-40	E E E E E E E E E E E E E E E E E E E	60	24	10	100	14	1078	77
F60210-62		60	24	10	100	14	1092	78

CRI95+ SERIES

3535 RGB

Pure color, mini LED, High density 120LED/M.



HIGH DENSITY RGB

Color Changing Mini RGB LED, more waterproof options.

Change a contra

Ö

e orene and a contraction of the contraction of the

01 0 110

BOLED

60LED

RGB+CCT

5in1 Colors **Milight Controller** Multiple colors adjustable.

Multiple Colors

Item NO.	Photo	QTY/M	Voltage	W(mm)	Segment	W/M	Lm/M	Lm/W
E30110-RGB	0 0 0 0 0 0	30	12	10	100	7.2	/	/
E60110-RGB		60	12	10	50	12	/	/
E60210-RGB		60	24	10	100	12	/	/
E120210-RGB		120	24	10	50	20	/	/
F30110-RGB		30	12	10	100	7	/	/
F60110-RGB		60	12	10	50	14	/	/
F96213-RGB	La canada a canad	96	24	13.5	62.5	19	/	/
F120220-RGB	C X NO X C X NO X C X NO X C	120	24	20	50	24	/	/
D120210-RGB		120	24	10	50	18	/	/
	RGBW ADJUSTABL	E S	ERI	ES				
	- anto - anto - anto - anto - anto							



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RGB FULL COLOR SERIES

xē	60	12	12	50	14	/	/
D	60	12	12	50	14	/	/
C (L)	60	12	12	100	9.6	/	/
	60	24	13.8	100	18	/	/
Ľ 🤤	96	24	13.5	125	15	/	/
	180	24	15	100	21	/	/

CCTSERIES

Two chips in one LED gives





BENDABLE S TYPE SERIES

GREAT WALL SERIES



ltem NO.	Photo	QTY/M	Voltage	W(mm)	Segment	W/M	Lm/M	Lm/W
F60110-CCT-2in1		60	12	10	50	14.4	1080	75
J60108-CCT-2in1		60	12	8	50	12	960	80
J120210-CCT-2in1	ie he	120	24	10	50	20	1600	80
D120110-CCT	ic chenc ic che chenc ic en	120	12	10	50	9.6	672	70
B120110-CCT		120	12	10	50	20	1800	90
F96213-CCT		96	24	13.5	125	23	1725	75
B240212-CCT		240	24	12	50	25	2300	82
A240210-CCT		240	24	10	50	20	1560	78
	BENDABLE SER	IES						
B60106-S	60-10-10-10-10-10-10-10-10-10-10-10-10-10	60	12	6	50	4	360	90
B60108-S		60	12	8	50	6	540	90
B60106-S lp54		60	12	6	50	4	320	80
Color Opti	ons: 📕 Red 📕 Green 🗖 Blue		UV					

DUAL WHITE COLOR SERIES



ONE LED CUT SERIES

Precise cutting every one LED



TWO LEDS CUT SERIES Single and Dual white options.





FULL BEAM SERIES

220°View No more Glare

GROW LIGHT SERIES

Energy saving 70% than HPS





460nm and 660nm is the most effective photosynthesis spectrum 730nm. 6000K is important for growth adjustment.



B60210-R	ic e	t e	E	C
B60210-B	ie i c	C I		
B60210-RW	CEC	C)	Œ I	C
B60210-RB	e i c	(C I	
B60210-P				
B120210-P	jî ûrê s	Fi 🚺	(()	(

ONE LED CUT SERIES

	QTY/M	Voltage	W(mm)	Segment	W/M	Lm/M	Lm/W
n a nan	100	12	10	10	22	1936	88
	120	12	10	8.3	21	2100	100
iği ğ	120	24	10	8.3	21	2100	100

TWO LEDS CUT SERIES

	40	24	10	50	8	640	80
E (40	12	10	50	8	640	80
	72	24	10	27.7	17	1360	80

FULL BEAM SERIES

	120	24	8	50	14	1120	80
1	180	24	12	100	18	1350	75

GROW LIGHT SERIES

I C	60	24	10	100	12	/	/
C.	60	24	10	100	12	/	/
C -	60	24	10	100	12	/	/
E .	60	24	10	100	12	/	/
E :	60	24	10	100	12	/	/
	120	24	10	50	20	/	/

CONSTANT CURRENT SERIES 15M running with TRIODE 20M running with IC



5V USB SERIES STRIPS LIGHT Multiple colors TV back lighting









CONSTANT CURRENT SERIES

	QTY/M	Voltage	W(mm)	Segment	W/M	Lm/M	Lm/W	
	20	24	10	200	6	E40	00	
4 . 10	30	24	10	200	O	540	90	
C (60	24	10	100	12	1080	90	
6	70	24	10	100	12	1200	100	
	120	24	10	50	20	1800	90	
E .	140	24	10	50	20	2000	100	
SHELL NO	40	24	10	50	9	720	80	
	60	24	10	100	14	1190	85	
	70	24	5	100	7	630	90	
	126	24	12	55.5	22	2090	95	

5V USB SERIES

: Li	60	5	8	10	6	420	70
E E	60	5	8	10	6	/	/
	30	5	10	33.3	7	/	/









Solid Integrated Silicone Glue



LED Type

A-2216;B-2835;C-3014;D-3528;E-3535;F-5050;G-5730;H-315; I-335;J-1919;K-6060;L-4040;M-2110;O-3030;P-2020;Q-3636.

Specification with ±10% tolerance for power and lumen output. Company won't be held responsible for any inaccuracies in detailed specification.

Frequently asked QUESTIONS







LED Strip - Frequently Asked Questions

What is LM-80?

The LM-80 is one such standard. LM-80 refers to a method for measuring the lumen depreciation of solid-state lighting sources, such as LED packages, modules and arrays. LM-80 was created by members of IES including Philips Lumileds.

What is TM21?

The TM-21 standard picks up where LM-80 left off. Since LED sources are capable of lifetimes well beyond 6,000 hours, TM-21 establishes a standard way to use LM-80 data to make consistent lifetime projections beyond the testing period. TM-21 dictates which values can be used in the calculation based on the sample size, number of hours and intervals tested, and test suite temperature.

What is L90B10@10,000hours?

L defines the percentage of lumen comparing with the initial lumens, B value means the failure data at the L data. So LB value indicate the real lifetime at a certain hours.

How small bin can we supply?

1 Bin will be the smallest we can source, but normally there will be 2-3 bins used inside the products if there is no specified.

How small mac adam ellipse can we supply?

The minimum we are doing inside the company was 2.5 steps, standard price in the pricelist was around 4-5 steps, economic type will be at 6 steps.

How small color temperature ranges can we supply?

CCT	2700K	3000K	4000K	5000K	6000K
Minimum ranges	2650-2750K	2925-3075K	4000-4200K	5000-5300K	6000-6300K
Typical ranges	26 0 0-2 80 0K	2800-3200K	4000-4500K	5000-5500K	6000-6500K

PCB color:

Now we mostly do the strips with white PCB. If you need other colors, we can also make the PCB color with vellow and black.

Waterproof grade:

We can do different waterproof ways for the LED strips for variable use:			
IP20: Non-wateroroof			
IP54 PU: PU alue on the surface.	1204-20	1204-91	1204-95
IP54 SI: Silicone glue on the surface.			
IP54 SP: Spray Silicone Glue on the surface			
IP65 ST: Silicone tube on both sides.	IP54-ST	IP65-ST	IP65-HT
IP65 HT: Heat Shrink tube on both sides.			
IP65 Nano: Nano Coating on the surface.			
IP67 HI: Hollow Integrated Silicone glue.	ID65-Nano	ID67-HI	ID68-SI
IP68 SI: Solid Integrated Silicone glue.	11 00-114110	11 07-111	11 00-01

What is the difference between PU and silicone glue?

A) Cold and high temperature resistance

PU(polvurethane) has a good low temperature resistance, but not resistant to high temperature; while silicone glue with good heat resistance and good low temperature resistance.

B) UV resistance

In the presence of UV light, an organic material (Polyurethane) will eventually revert to it's natural state, thus changing properties and deteriorating over time, an inorganic(silicone) will not.

C) Yellow degeneration

The PU glue has a little yellow degeneration as time goes, while silicone glue has no yellow degeneration.

D) Lifespan

Chemically, the organic material(polyurethane) will bread down when expose to high temperature or UV, so the lifetime is shorter than silicone glue.

How is heat shrink pipe works in led strips?

Working condition at -55 to 125 degree, 3 minutes shrinking at 200 degree according to UL224 standard. Color at Transparent with options at Black, Red, Blue, Yellow at customization. Heat shrink Pipe was made of PET, Anti-Electric below 600V, Anti-Fire Ratio at VW-1.

What is CCT shifting and how to control it?

All of the color temperature will be shift by any cover in front of the LEDs, different Glue will have different influence on the whole temperature of LED strips, the shifting curve can be referred by detailed.

What is the max width of the PCB for heat shrink pipe?

When using heat shrink pipe on the led strips, the max width is 13.5mm. For 15mm or above, the pipe make the led strips out of shape.

What LED chip are we use?



The LEDs on our LED Strip are from by an established (1996) Manufacturer in Taiwan called Epistar, The LEDs have proved themselves to have a long lifetime and are

of very high quality, a lifetime of at least 50,000 hours can be expected. Many of the cheaper LED Strips and Strips use LEDs which from the outside look identical to the Epistar LEDs but they are cheap Chinese copies with poor internal materials which give rise to a short lifespan. The LEDs on these cheap strips are usually mounted to a very thin circuit board with copper tracks which do not adequately dissipate the heat away from the LEDs further shortening the lifetime of the product. Most of these LED Strips are designed for short term use such as festival and holidays.

The cheap Chinese LED Strips can also have LEDs which are poorly graded for color consistency so the color along the length of the same strip can look very uneven, for example some LEDs may appear a different white color to others which can look blue or warm white in color. For long term use and professional installation our LED Strip is a much wiser choice.

What does CRI mean and why is CRI important in led lighting?

Can't tell the difference between the black and navy colored socks in your walk in closet? Could be that your current lighting source has a very low CRI! Not all light is made equal; some light renders color better than others. Color Rendering Index (CRI) is the measurement of how colors look under a light source when compared with sunlight. The index is measured from 0-100, with a perfect 100 indicating that colors under the light source appear the same as they would under natural sunlight.

Full range of our LED strips are with CRI >95, presenting the true color for you.



What is the difference between CRI and Ra?

The calibration R1 - R15 color sample, is the R1 - R15 color rendering and when a light source compared with reference standard light source, the index value is 100%.

The general color rendering index (Ra) is just calibrated R1-R8.

What is the flip chip?



One way to encapsulate the LED Chips into the Pad of SMD, advantage will be better heat emitting and less failure ratio of LEDs.

What certificate do we have?

We have the CE RoHS certificate for the European clients and also get UL/CUL listed for the American & Canada clients. UL file No. E476561.



Can I solder the led strips?

Yes, you can solder wire to any of the copper ports to connect strips together.



Can I use a battery to power the light strips?

Yes, you can power our strip lights with any 5v/12v/24v power source.

What is the maximum length of led strip that can be powered?

We sell strips in spools of 16.4 Ft (5 meters) If you want to use them in more than 5M lenath. we recommend the following instruction:



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Can I cut my led strip lights?

Yes. You can cut the strips with a regular, household scissor at any of the marked cut lines. These lines are designated on the strip by a solid line with the image of a scissor right next to it.



If I connect the strip backwards (+) to (-) and (-) to (+) will that ruin the strip?

No. LEDs are diodes so they only let power through in one direction. Simply reverse the wires and the strip will work fine.

Can the strips be used in high temperature areas?

No. While LEDs are quite durable and will work great in most any environment, heat is the main cause for shortened LED lifespan. Therefore, the cooler you can keep the LEDs, the longer they will last (if you can keep them below 80°C you should get the rated life out of them). With this in mind, leaving them on for extended periods of time while on the reel or bunched up in a confined space will shorten their lifespan.

Can led strip and led strips be dimmed?

Yes, but this should be done by using one of our dimmers between the LED Strip and the output of the Power Supply. It should not be dimmed from a standard wall dimmer.



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How many warranty years for the led strips?

We offer 1yr warranty for our eco-type led strips, 2yr warranty for our standard LED strips and 3yr warranty for our premium led strips.

What tape do you used in the led strips?

We have yellow and white 3M tape for the strips and also the Tesa tape to get a strong viscous when paste inside the aluminum profile.



What is the series of the 3M/tesa tape used in the led strips?

Normally, we use 3M 300MP, Tesa 4965 in our led strips. However, 3M 200MP and VHB also available.

Which tape has the strongest stickiness?

Usually, the stickiness ranks as: 3M VHB>Tesa 4965> 3M 300MP.

What is the voltage dropping?

Voltage is always dropping by transmitting of current decided by the transmitting material and the size of material, Copper is the best options to transmit current up till now.

How to decrease the voltage dropping?

- a. Increase the thickness of Copper Layer to make the current transmit guicker or bigger to improve the voltage dropping.
- b. Using the electric way to boost the voltage at each section or boost the current at each section, we are using constant current Triode and constant current IC to improve the voltage dropping or make the beginning and end of strips at the same brightness output.
- c. Recommend the higher voltage input version instead of lower voltage input version. 24VDC LED strips will definitely better than the 12VDC strips at 5 meters run..

	Beginning of 5 Meters	End of 5 Meters	Voltage Dropping Ratio
24VDC 2 Ounce Copper Layer	24VDC	2 2. 3 VDC	7%
12VDC 2 Ounce Copper Layer	12VDC	10.4VDC	13%

Tips on how to reduce voltage dropping in leed strip installation:

One is connecting the led strips in parallel, the other one is power the led strips at both sides. Below connection drawing for your reference:

1)To connect the led strip lights in parallel

2) Two side power in put in parallel



Can the led strips be powered by 12/24VAC?

Most of the LED Strips we are manufacturing are working at DC version, DC shorts for Direct Current, AC shorts for Alternative Current; There is will be AC to DC converter or rectifier required if the existing power source is AC output.

How strong of magnetic strips Sticker?

The stickiness about the magnetic stirp is about 3.8g/cm2.

What kits options do I have?

According to the color, there are 4 options: Single color kit, RGB kit, RGBW kit and color temperature adjustable kit. According to the package, there are 2 options: Blister and Color-Box.



Special Improvement

If need special improvement on part of the parameters, like CRI or Lumens, we customized the products to meet your need.

Can I print my Logo on the PCB?

Yes, we can print your logo on the strips and the MOQ is 500M for one type to print the logo, if the quantities is below 500M, we will charge 50USD per item for PCB redesigning.

There will be two ways to achieve the Logo Printing:

- 1. Laser Machine Carving:
- We have the Laser Carving machine can do with the Logo on the PCB. the Logo Color depends on the surface of raw material instead client can choose the Color.
- 2. Silk Printing: we give the graphic file to PCB supplier to let them print the Logo on the PCB, please confirm the Photo Clips from Supplier before you move on with the final production, Black, White, Red Color is the standard lnk in PCB supplier that can be used as the Logo Color, Duo-Color of Logo will be complicated and require more time. Below is the silk printing of UL logo FYI.



Design for anti-static bags

Usually we used the neutral silver plastic bag and put the label with specification in the middle of the bag. The design on the anti-static Bags is also customized.



SMD by economic and standard

Economic SMD cost less compared to standard SMD, but the standard SMD has a better performance.

Width of PCB

For 3528 and 2835 strip, the range is 5/8/15mm.For 5050 strip, the range is 10/20mm.For 5630 strip, the rang is 10/12/13.5mm. For 333 and 3014, the range is 8/10mm.

Why the rated watts different to actual watts?

We are always using the rated watts on the label if our customer does not specify that, which occur the confusion and misunderstanding that customer complain the rated watts is not matching with actual watts with too much difference.

The Rated watts are theoretical values calculated under ideal circumstance. During the lighting fixtures are working, every component of these fixtures have resistors, the resistors leads to voltage dropping. We know P=U*I, when the voltage go down, the power go down to Example: 2835 SMD 60 LEDs rated with 14.4 watts/M, when they are driven by power supply at one ends, it will achieve 11-12 watts only, but after 30 minutes lighted up, the current will increase after the whole strip temperature raised up, results to achieve more than 12 watts, and if the LED strips are lighted up with both ends (to make the voltage dropping less), it will reach the final watts at 13 watts/M, which is less than 10% difference to rated watts is allowed.

Also we will reduce the current on some conditions, like when the strip is glued, the heat dissipation is not good as naked, so we would reduce the power to make sure the fixture do no generate much heat during operation. Much heat will shorten the life of the LEDs.

What is the best ratio for blue and red?

Blue (wavelength: 455-465nm): is good for photosynthesis; and help to induce Chlorophyll and Carotenoid, which are necessary for healthy leaves

Red (wavelength:660-665nm) : is the peak wavelength for photosynthesis and photoperiodism. Red light is best for blooming and fruits.

What is difference between double sided PCB and single sided PCB of led strip?

LED Strip PCB is also the key to high guality but LED. Best double sided PCB can bear large current, very good heat dissipation and has high stable quality.

Here are our experience and basic led strip knowledge sharing with you.

1. Flexible led strip PCB thickness

Double sided PCB and single sided PCB thickness mainly is cooper thickness. single sided PCB thickness is < 1 ounce thickness



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also 1 ounce double sided PCB thickness.

2. Hand feeling

Without 3M Tape, you need to judge the led strip PCB quality by hands. The double side PCB feel a little thick and hard and heavier than single sided led strip; it feels very good quality. The single sided PCB feel thin, no weight, very soft. it is easy to be blown by wind.

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3. Circuit at backside

Double sided PCB of high quality led strip must have circuit on front sided and backside; single side PCB don't have any circuit on the backside.

Different PCB thickness

The LED Strip Printed Circuit Board (PCB) is what electronically connects electronic components. The quality and thickness of the copper is of very important.

The thickness of the cooper PCB

The thicker the copper, the more current can flow and the more efficient the strip is. currently in the market, it has 1 ounce, 2ounce, 4ounce thick PCB.

2. The pureness of the copper

The more pure, the copper is the better. Higher quality copper means less resistance and a stronger current.

3. Double sided and one sided copper

Copper PCB has double sided and one sided copper difference. double sided cooper PCB is best.

4. Heat dissipation systems design of PCB

Only high quality LED Strip PCB has such design. High quality Printed circuit Board will have a thin film at each side. it will improve the heat dissipation of LED Strips. in the market, many factories reduce the cost and use the one sided film.

You'll want to take each one of these factors into consideration when selecting the provider of your Flexible LED Strip lights. Choosing the wrong solution could end up costing you more than you might imagine.

What is the max current PCB can undertake?

1oz Copper Line on PCB can take 1.6-2A at 1mm Width of Printed Circuit line on PCB.

2oz Copper Line on PCB can take 2-2.3A at 1mm Width of Printed Circuit line on PCB.

3oz Copper Line on PCB can take 3.2-4A at 1mm Width of Printed Circuit line on PCB.

Normal Drawing will use around 4 mm for Single color at Plus or Minus, Normal Drawing will use at least 2mm for Common on RGB or RGBW strip.

What is the TC point?

Temperature Check Point that was used for the engineers to monitor the temperature of PCB Easier



What is the soldering ball?



How you can do with soldering ball at your led strips?

We control the diameter of Soldering Ball within 0.2mm with less 5 balls per one meter to avoid the shortcut may be caused when soldering ball melts after temperature raised up.

The difference between cheapest led strips and expensive led strip

cooper thickness In the market, there are



Are you buying cheapest the led strip or the most expensive led strips? In the business world, there is a rule you may know. the rule is that the cheapest one is the most expensive things, the most expensive thing is the cheapest one!

Now let us show you the datas on the led strips

	Economy LED Strip	Normal LED Strip	Highest quality LED Strips
	60×5050	60×5050	60×5050
Evaluation Price	US\$1.2/m	US\$2.1/m	US\$4.5/m
warranty	One of year	2 years warranty	5 years warranty
Brightness	600-720lm	1080-1200lm	1320-1440Lm
Light decay grade	very fast	slow	very slow
Working life	< 30000 hours	>50000 hours	>50000 hours
Price per year	US\$1.2 @ 1 year	US\$1.05/m@1 yea	r US\$0.9@1 year
How many purchasing times within 5 years	5 times	2 times	1 time
Extra cost	labor cost, maintenance cost and installation cost, and time cost	installation time and maintenance cost	No
Total cost	> USD6/m+ Extra cost	US\$5.25/m+ extra cost	US\$4.5/m
Conclusion	The most expensive strip		The cheapest strip

To be conclusion. The cheapest one is the most expensive one. The most expensive one is the cheapest one!