



Catalogue 1

Hebei I.T. (Shanghai) Co., LTD

Add: Rm. 804, No. 6 Building, 1139 Pudong Ave.

200135 Shanghai, China


Tel.: +86-21-58526062, 58523251




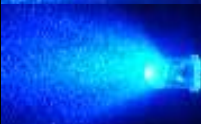


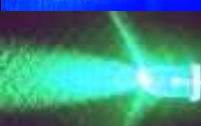



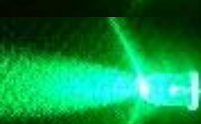

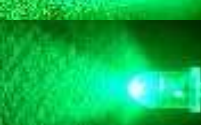
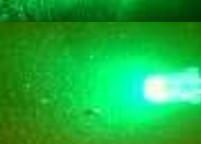
Fax: +86-21-58523251

Email: sales@hebeiltd.com.cn

www.ledz.com


5MM InGaN LEDs - White,Blue,Green

Order No.	Color	Wave length (nm)	Electro-optical char.			2Ø1/2 Half intensity angle(deg)	
			Vf(V)		Iv@20mA (mcd)		
			Typ.	Max.			
515PWC	White Slow Burning	6000-12000K	3.2	3.6	12000-26000	13°~17°	
520PWC	White Slow Burning	6000-12000K	3.2	3.6	10000~22000	17°~23°	
530PWC	White Slow Burning	6000-12000K	3.1	3.6	10000~22000	24°~30°	
540PWC	White Slow Burning	6000-12000K	3.2	3.6	6000~15000	32°~40°	
550PWC	White Slow Burning	6000-12000K	3.2	3.6	4000~12000	40°~50°	
560PWC	White Slow Burning	6000-12000K	3.2	3.6	3000~10000	55°~65°	
560PWD	White Slow Burning	6000-12000K	3.2	3.6	2000~6000	60°~70°	
515PWO4C	Warm White Slow Burning	2800-3600K	3.2	3.6	10000~22000	13°~17°	
530PWO4C	Warm White Slow Burning	2800-3600K	3.2	3.6	8000~18000	24°~30°	
550PWO4C	Warm White Slow Burning	2800-3600K	3.2	3.6	3000~10000	40°~50°	
530MUV9C	Ultra Violet	390~405	3.4	4.0	3000~4000uW	24°~30°	
530JPKC	Pink(Purple) Blue chip Red phosphor	Mixed 470+630	2.8	3.4	2000~6000	24°~30°	

510LB7C	Blue	460~475	2.8	3.4	4200~8200	10°~13°	
520LB7C	Blue	460~475	2.8	3.4	4200~8200	17°~23°	
530LB7C	Blue	460~475	2.8	3.4	3000~5860	24°~30°	
540LB7C	Blue	460~475	2.8	3.4	2000~4180	30°~40°	
560LB7D	Blue	460~475	2.8	3.4	300~600	60°~70°	
530LB5C	Deep Blue	455~465	2.8	3.4	1520~2130	24°~30°	
520PG0C	Aqua green	503~512	3.0	3.6	5000~16000	17°~23°	
530PG0C	Aqua green	503~512	3.0	3.6	5000~16000	24°~30°	
540PG0C	Aqua green	503~512	3.0	3.6	5000~12000	30°~40°	
510PG2C	Pure green	525	3.0	3.6	12000~22000	10°~13°	
520PG2C	Pure green	525	3.0	3.6	9000~22000	17°~23°	
530PG2C	Pure green	525	3.0	3.6	7000~16000	24°~30°	
540PG2C	Pure green	525	3.0	3.6	6000~16000	30°~40°	
560PG2D	Pure green Green Diffused lens	525	3.2	3.6	800~2000	60°~70°	

5MM InGaN LEDs - Yellow,Red

Order No.	Color	Wave length (nm)	Electro-optical char.			2Ø1/2 Half intensity angle(deg)	
			Vf(V)		Iv@20mA (mcd)		
			Typ.	Max.			
530AG7C	Green	567~573	2.0	2.6	300~800	24°~30°	
510PY9C	Amber(Yellow) HP Chip Very long life	588~594	2.0	2.6	6000~12000	10°~13°	
520PY9C	Amber(Yellow) HP Chip Very long life	588~594	2.0	2.6	4000~8000	17°~23°	
530PY9C	Amber(Yellow) HP Chip Very long life	588~594	2.0	2.6	3000~8000	24°~30°	
540PY9C	Amber(Yellow) HP Chip Very long life	588~594	2.0	2.6	2000~8000	32°~40°	
560PY9C	Amber(Yellow) HP Chip Very long life	588~594	2.0	2.6	2000~3000	55°~65°	
510MY8C	Yellow (Amber)	588~594	1.8	2.4	6000~12000	10°~13°	
520MY8C	Yellow (Amber)	588~594	1.8	2.4	3000~6000	17°~23°	
530MY8C	Yellow (Amber)	588~594	1.8	2.4	2000~4000	24°~30°	
540MY8C	Yellow (Amber)	588~594	1.8	2.4	1500~3000	32°~40°	
560MY8C	Yellow (Amber)	588~594	1.8	2.4	800~1500	55°~65°	
560MY8D	Yellow (Amber)	588~594	1.8	2.4	400~800	60°~70°	
510PR2C	Super Red HP Chip Very long life	624~630	2.0	2.6	6000~12000	10°~13°	

520PR2C	Super Red HP Chip Very long life	624~630	2.0	2.6	4000~8000	17°~23°	
530PR2C	Super Red HP Chip Very long life	624~630	2.0	2.6	3000~6000	24°~30°	
540PR2C	Super Red HP Chip Very long life	624~630	2.0	2.6	2000~6000	32°~40°	
560PR2C	Super Red HP Chip Very long life	624~630	2.0	2.6	1500~4000	55°~65°	
510MR2C	Super Red	621~624	1.8	2.4	3000~8000	10°~13°	
520MR2C	Super Red	621~624	1.8	2.4	2000~4000	17°~23°	
530MR2C	Super Red	621~624	1.8	2.4	2000~4000	24°~30°	
540MR2C	Super Red	621~624	1.8	2.4	1000~2000	32°~40°	
560MR2C	Super Red	621~624	1.8	2.4	600~1500	55°~65°	
560MR2D	Super Red	621~624	1.8	2.4	300~600	55°~70°	
510HR3C	Red Hi.Eff	621~630	1.8	2.4	3000~8000	10°~13°	
520HR3C	Red Hi.Eff	621~630	1.8	2.4	2000~4500	17°~23°	
540HR3C	Red Hi.Eff	621~630	1.8	2.4	1000~3000	32°~40°	
530FR4C	Red Hi.Eff	636~642	1.8	2.4	800~2000	24°~30°	



water clear







5mm X-type LEDs









Order No.	Chip		Wave length (nm)	Electro-optical char.			2Ø1/2 Half intensity angle(deg)	
	Raw mater.	Emitting color		Vf(V)		Iv/@20mA (mcd)		
				Typ.	Max.			
599XW7C	GaN	White 6000~10000K	---	3.2	3.6	800~1000	85~100°	
515XW8C	GaN	White 6000~10000K	---	3.2	3.6	10000~15000	13~17°	
515XW04C	GaN	Warm White	---	3.2	3.6	10000~22000	13~17°	
530XW04C	GaN	Warm White	---	3.2	3.6	4000~8000	24~30°	
530XW8C	GaN	White 6000~10000K	---	3.2	3.6	6000~15000	24~30°	
515XB7C	GaN	Blue	465~470	3.2	3.6	4000~8000	13~17°	
530XB7C	GaN	Blue	465~470	3.2	3.6	2000~6000	24~30°	
515XG2C	GaN	Pure Green	518~524	3.2	3.6	12000~24000	13~17°	
530XG2C	GaN	Pure Green	518~524	3.2	3.6	8000~24000	24~30°	
515XY8C	AlGaInP	Yellow (Amber)	585~594	1.8	2.2	2000~4000	13~17°	
530XY8C	AlGaInP	Yellow (Amber)	585~594	1.8	2.2	800~1500	24~30°	
515XR2C	AlGaInP	Super Red	621~627	1.8	2.2	3000~4500	13~17°	
530XR2C	AlGaInP	Super Red	621~627	1.8	2.2	1500~2500	24~30°	

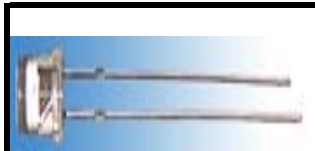


High Flux 30~50mA Piranha(UFO) LEDs







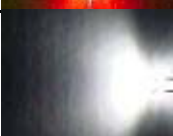

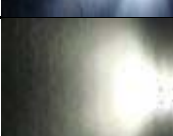
Order No.	Chip		Wave length (nm)	Electro-optical char.			2Ø1/2 Half intensity angle(deg)
	Raw mater.	Emitting color		Vf(V)		mIm(mcd)/@30/50(mA)	
				Typ.	Max.		
940PWO4C	GaInN	Warm White 3000K+	---	3.3	3.8	4700~7800 (7000~12000) @30	35~40° 
940PWC	GaInN	White 6000~10000K	---	3.3	3.8	4700~7800 (7000~12000) @30	35~40° 
940LB7C	GaInN	Blue	470	3.4	4.0	770~1300 (1150~1950) @30	35~40° 
940MY8C	GaAlInP	Yellow (Amber)	588	2.2	2.6	2200~3600 (3300~5400) @50	35~40° 
940MR2C	GaAlInP	Super (Red)	624	2.2	2.6	2200~3600 (3300~5400) @50	35~40° 
980PWO4C	GaInN	Warm White 3000K+	---	3.3	3.8	4700~7800 (2350~3900) @30	70~90° 
980PWC	GaInN	White 6000~10000K	---	3.3	3.8	4700~7800 (2350~3900) @30	70~90° 
980LB7C	GaInN	Blue	470	3.4	4.0	770~1300 (400~650) @30	70~80° 
980PG0C	GaInN	Aqua Green	505	3.4	4.0	1700~2800 (850~1400) @30	70~80° 
980PG2C	GaInN	Pure Green	525	3.4	4.0	2800~4700 (1400~2350) @30	70~80° 
980MY8C	GaAlInP	Yellow (Amber)	588	2.2	2.6	2200~3600 (1100~1800) @50	70~80° 
980MR2C	GaAlInP	Super (Red)	624	2.2	2.6	2200~3600 (1100~1800) @50	70~80° 





913PWO4C	GaInN	Warm White 3000K+	---	3.3	3.8	4700~7800 (900~1500) @30	110~130°	
913PWC	GaInN	White 6000~ 10000K	---	3.3	3.8	4700~7800 (900~1500) @30	110~130°	
913LB7C	GaInN	Blue	470	3.4	4.0	770~1300 (150~250) @30	110~130°	
913PG2C	GaInN	Pure Green	525	3.4	4.0	2800~4700 (550~900) @30	110~130°	
913MY8C	GaAlInP	Yellow (Amber)	588	2.2	2.6	2200~3600 (400~700) @50	110~130°	
913MR2C	GaAlInP	Red Hi.Eff	635	2.2	2.6	2200~3600 (400~700) @50	110~130°	

		0.5W 100mA 8mm LEDs						
Order No.	Chip		Wave length (nm)	Electro-optical char.			2Ø1/2 Half intensity angle(deg)	
	Raw mater.	Emitting color		Vf(V)		Iv@100mA (lm)		
				Typ.	Max.			
05W08EW6C	GaInN	White	5000~9000K	3.2	3.4	28 lm	120°	
		0.5W 100mA 5mm LEDs						
Order No.	Chip		Wave length (nm)	Electro-optical char.			2Ø1/2 Half intensity angle(deg)	
	Raw mater.	Emitting color		Vf(V)		Iv@100mA (mcd)		
				Typ.	Max.			
05W580EW6C	GaInN	White	6000~10000K	3.2	3.4	22 lm	70°~90°	
05W580EW3C	GaInN	Warm White	2500~3500K	3.4	4.0	13000~22000mIm (3900~8000mcd)	70°~90°	
05W580BBC	GaInN	Blue	470	3.4	4.0	3600~7800mIm (2350~5000mcd)	70°~90°	
05W580EGC	GaInN	Green	525	3.4	4.0	13000~22000mIm (3900~10000mcd)	70°~90°	
05W580CYC	AlGaInP	Yellow (Amber)	590	2.2	2.8	6000~10000mIm (4000~6500mcd)	70°~90°	
05W580ERC	AlGaInP	Red	625	2.2	2.8	7800~17000mIm (4000~6500mcd)	70°~90°	



5mm Superbright Flat Top LEDs wide angle

Order No.	Chip		Wave length (nm)	Electro-optical char.			2Ø1/2 Half intensity angle(deg)	
	Raw mater.	Emitting color		Vf(V)		Iv/@20mA (mcd)		
				Typ.	Max.			
599LB7C	GaN	Blue	470	3.5	4.0	550~770	85~100°	
599PG2C	GaN	Pure green	528	3.5	4.0	800~3000	85~100°	
599MY8C	AlGaN	Yellow (Amber)	590	2.0	2.5	800~3000	85~100°	
599PR2C	AlGaN	Super Red HP Chip Very long life	624	2.0	2.5	550~1100	85~100°	
599MR2C	AlGaN	Super Red	624	2.0	2.5	390~770	85~100°	
599HR3C	AlGaN	Red Hi.Eff	624	2.0	2.5	280~550	85~100°	
599PWC	GaN	White Slow Burning	6000~12000K	3.2	3.6	800~3000	85~100°	
551PWC	GaN	White Slow Burning	6000~12000K	3.2	3.6	150~600	30°~150°	
599PWO4C	GaN	Warm White Slow Burning	2800~3600K	3.2	3.6	600~2000	85~100°	

Order No.		Chip		Wave length (nm)	Electro-optical char.		2 θ 1/2 Half intensity angle(deg)		
		Raw mater.	Emitting color		Vf(V)				Iv/@20mA (mcd)
					Typ.	Max			
130PWC	GaN	White 6000~10000 K	---	3.2	3.6	2000~8000	30°		
130LB7C	GaN	Blue	470	3.0	3.5	1500~2100	30°		
130PG2C	GaN	Pure Green	528	3.0	3.5	4000~6000	30°		
130MR2C	AlGaInP	Super Red	624	2.0	2.5	1000~2000	30°		

Order No.		Chip		Wave length (nm)	Electro-optical char.		2 θ 1/2 Half intensity angle(deg)		
		Raw mater.	Emitting color		Vf(V)				Iv/@20mA (mcd)
					Typ.	Max			
330PWC	GaN	White 6000~10000 K	---	3.2	3.6	6000~18000	24~30°		
330PWO4C	GaN	Warm White 2500~3500K	---	3.2	3.6	6000~15000	24~30°		
330MUV9C	GaN	Ultra Violet	395~400	3.5	3.8	3000~4000 uW	24~30°		
330LB7C	GaN	Blue	465~470	2.8	3.4	1500~4000	24~30°		
330PG2C	GaN	Pure Green	518~527	2.8	3.4	6000~12000	24~30°		
330PG0C	GaN	Green	500~505	2.8	3.4	4000~8000	24~30°		
330MY8C	AlGaInP	Yellow (Amber)	585~594	1.8	2.2	1500~3000	24~30°		
330MR2C	AlGaInP	Hi. Eff. Red	618~627	1.8	2.2	1500~3000	24~30°		
330HR3C	AlGaInP	Super Red	624~633	1.8	2.2	1100~2130	24~30°		



Order No.		Chip		Wave length (nm)	Electro-optical char.		2Ø1/2 Half intensity angle(deg)		
		Raw mater.	Emitting color		Vf(V)				Iv/@20mA (mcd)
				Typ.	Max.				
412PWO4C		GaN	Warm White 2500~3500K	---	3.2	3.6	800~1500	130~170°	
412PWC		GaN	White 6000~10000 K	---	3.2	3.6	1000~3000	130~170°	
412LB7C		GaN	Blue	470	3.0	3.6	73~145	130~170°	
412PG0C		GaN	Blue Green	500~510	3.0	3.6	200~390	130~170°	
412PG2C		GaN	Pure Green	520~530	3.0	3.6	280~550	130~170°	
412MY8C		AlGaN	Yellow (Amber)	588~594	2.0	2.4	102~200	130~170°	
412PR2C		AlGaN	Super Red	618~624	2.0	2.4	102~280	130~170°	
412MR2C		AlGaN	Super Red	618~624	2.0	2.4	102~200	130~170°	
412HR3C		AlGaN	Hi. Eff. Red	625~635	2.0	2.4	102~280	130~170°	




Superbright Oval LEDs With Stoppers and Brass Lead Frame

Designed especially for severe climatic conditions outdoor panel




X-Type 3.9x3.2mm

Order No.	Chip		Wave length (nm)	Lens color	Electro-optical characteristics			2Ø1/2 Half intensity angle (°)
	Raw mater.	Emited color			Vf(V)		Iv@20mA (mcd)	
					Typ.	Max		
3751XG2D-S	GaN	Green	520-530	Green Diffused	3.0	3.6	1700-2880	105°/55° 
3751XB7D-S	GaN	Blue	465-475	Blue Diffused	3.0	3.6	300-620	105°/55° 


5.2x3.8mm





Order No.	Chip		Wave length (nm)	Lens color	Electro-optical char.			2Ø1/2 Half intensity angle(deg)
	Raw mater.	Emitting color			Vf(V)		Iv@20mA(mcd)	
					Typ.	Max.		
7511LB7D-SB	GaN	Blue	470	Blue Diffused	3.5	4.0	700~1100	110/50° 




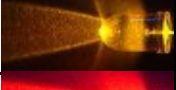

3.9x3.1mm



Order No.	Chip		Wave length (nm)	Lens color	Electro-optical char.			2Ø1/2 Half intensity angle(deg)
	Raw mater.	Emitting color			Vf(V)		Iv@20mA(mcd)	
					Typ.	Max.		
3751LB7D-SB	GaN	Blue	470	Blue Diffused	3.5	4.0	400~1100	110/50° 
3751PG2D-SB	GaN	Pure Green	524	Green Diffused	3.5	4.0	1500~3000	110/50° 
3751MR2D-SB	GaAlInP	Super Red	624	Red Diffused	2.0	2.5	300~550	110/50° 

5.2x3.8mm

Order No.	Chip		Wave length (nm)	Lens color	Electro-optical char.			2Ø1/2 Half intensity angle(deg)
	Raw mater.	Emitting color			Vf(V)		Iv@20mA(mcd)	
					Typ.	Max.		
774PG2T-S	GaN	Pure Green	524	Green Transparent	3.5	4.0	1500~2100	70/40° 

		5mm InfraRed LEDs					
Order No.	Wave length (nm)	Lens color	Electro-optical char.			2Ø1/2 Half intensity angle(deg)	
			Vf(V)		Ie(mW/sr)		
			Typ.	Max.			
510E850C	850	Dark Blue Transparent	1.5	1.8	160 mW/sr @ 50mA	10~13° 	
530E850C	850	Dark Blue Transparent	1.5	1.8	80mW/sr @ 50mA	24~30° 	
520E940C	940	Water Clear	1.2	1.6	30mW/sr @ 10mA	17~23° 	

 Water clear lenses		8mm superbright LEDs					
Order No.	Chip		Wave length (nm)	Electro-optical char.			2Ø1/2 Half intensity angle(deg)
	Raw mater.	Emitting color		Vf(V)		Iv/@20mA (mcd)	
				Typ.	Max.		
825PWC	GaN	White 7000K	X=.29 Y=.30	3.2	3.6	6000~10000	17~23° 
825LB7C	GaN	Blue	470	3.0	3.5	5860~12000	20° 
825PG2C	GaN	Pure Green	528	3.0	3.5	16000~33000	20° 
825MY8C	GaN	Yellow	590	2.0	2.5	3000~6000	20° 
825MR2C	GaAlInP	Red Hi.Eff	624	2.0	2.5	3000~6000	20° 

		10mm X-type LEDs						
Order No.	Chip		Wave length (nm)	Lens color	Electro-optical char.			2Ø1/2 Half intensity angle(deg)
	Raw mater.	Emitting color			Vf(V)		Iv@ 20mA(mcd)	
					Typ.	Max.		
105XW7D	GaN	White 7000K	X=.29 Y=.30	White Diffused	3.0	3.6	1000~2000	40~50° 
105XB7D	GaN	Blue	470	Blue Diffused	3.0	3.6	400~800	40~50° 
105XG2D	GaN	Pure Green	528	Green Diffused	3.0	3.6	1500~3000	40~50° 
105XY8D	AlGaInP	Yellow (Amber)	588	Yellow Diffused	2.0	2.5	400~600	40~50° 
105XR2D	AlGaInP	Super Red	624	Red Diffused	2.0	2.5	400~600	40~50° 



10mm superbright LEDs

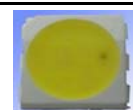
Order No.	Chip		Wave length (nm)	Lens color	Electro-optical char.			2 θ 1/2 Half intensity angle(deg)	
	Raw mater.	Emitting color			Vf(V)		Iv@ 20mA(mcd)		
					Typ.	Max.			
1025PWC	GaN	White 7000K	X=.29 Y=.30	Water Clear	3.2	3.6	8000~18000	17~23°	
105PWD	GaN	White 7000K	X=.29 Y=.30	White Diffused	3.2	3.6	1500~3000	40~50°	
1025LB7C	GaN	Blue	470	Water Clear	3.0	3.6	3000~8200	17~23°	
105LB7D	GaN	Blue	470	Blue Diffused	3.0	3.6	390~770	40~50°	
1025PG2C	GaN	Pure Green	528	Water Clear	3.0	3.6	16000~33000	17~23°	
105PG2D	GaN	Pure Green	528	Green Diffused	3.0	3.6	1500~2100	40~50°	
1025MY8C	GaAlInP	Yellow (Amber)	588	Water Clear	2.0	2.5	4180~5860	17~23°	
105MY8D	GaAlInP	Yellow (Amber)	588	Yellow Diffused	2.0	2.5	550~800	40~50°	
1025MR2C	GaAlInP	Super Red	624	Water Clear	2.0	2.5	3000~5860	17~23°	
105MR2D	GaAlInP	Super Red	624	Red Diffused	2.0	2.5	550~1100	40~50°	

Superbright SMD LEDs

Order No.	Chip		Wave length (nm)	Electro-optical char.			2Ø1/2 Half intensity angle(deg)
	Raw mater.	Emitting color		Vf(V)		Iv/@20mA (mcd)	
				Typ.	Max.		
TOP LEDs (PLCC2) 3.5X2.8mm							
PLCC2LW6CT	GaN	White	---	3.2	3.6	1520-2550	120°
PLCC2LW3CT	GaN	Warm White	---	3.2	3.6	1520-1900	120°
PLCC2LBCT	GaN	Blue	470	3.2	3.5	200-550	120°
PLCC2LGCT	GaN	Pure Green	525	3.2	3.5	770-1520	120°
PLCC2KYCT	GaAlInP	Yellow(Amber)	590	2.0	2.4	280-770	120°
PLCC2KRCT	GaAlInP	Hi. Eff. Red	635	2.2	2.5	280-770	120°



TOP LEDs (PLCC6) 5.5X6.0mm							
PLCC6MW6C-3C	GaN	White	---	2.9	3.2	4000-8000	120°
PLCC6MW3C-3C	GaN	Warm White	---	3.2	3.6	6000-8000	120°
PLCC6LBCT	GaN	Blue	470	3.2	3.5	1100	120°
PLCC6LGCT	GaN	Pure Green	525	3.2	3.5	4180	120°
PLCC6KYCT	GaAlInP	Yellow(Amber)	590	1.6	2.4	1900	120°
PLCC6KRCT	GaAlInP	Hi. Eff. Red	635	1.8	2.6	2130	120°











Classic SMD 0603,0805,1206

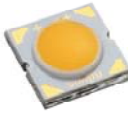

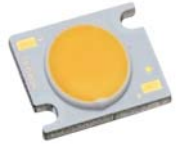
Order No.	Chip		Wave length (nm)	Electro-optical char.			2Ø1/2 Half intensity angle(deg)
	Raw mater.	Emitting color		Vf(V)		Iv/@20mA (mcd)	
				Typ.	Max.		
1206LWCT 0805LWCT 0603LWCT	GaN	White	---	3.0	3.4	1100 770 200	130°
1206LBCT 0805LBCT 0603LBCT	GaN	Blue	470	3.0	3.4	145 102 37	130°
1206LGCT 0805LGCT 0603LGCT	GaN	Pure Green	525	3.0	3.4	550 550 145	130°
1206KGCT 0603KGCT	GaN	Green	570	1.8	2.2	10 19	130°
1206KYCT 0805KYCT 0603KYCT	GaN	Yellow (Amber)	590	1.8	2.2	145 102 52	130°
1206KRCT 0805KRCT 0603KRCT	GaN	Hi. Eff. Red	635	1.8	2.2	145 102 102	130°


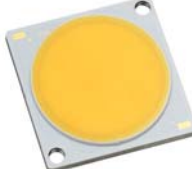






Sizes (in mm):1206 - 3.2x 1.6 x 1.1 ; 0805 - 2.0 x 1.25 x 1.1 ; 0603 - 1.6 x 0.8 x 0.8

		PLCC4						
		4pins common anode						
PLCC4RGBCT-CA (common anode)	GaAlInP	Super Red	620~630	2.0	2.4	102~280mcd	110~130°	
	GaN	Pure Green	520~530	3.2	3.5	280~770mcd		
	GaN	Blue	465~475	3.2	3.6	145~280mcd		
Total flux of this LED is up to 50000 mlm / brightness 1000mcd.								
		PLCC6 50x50						
		6 pins, no common - every color has own CA/CC set						
PLCC6RGBCT (common anode)	GaAlInP	Super Red	620~630	2.0	2.6	145~280mcd	110~130°	
	GaN	Pure Green	520~530	3.0	3.6	280~550mcd		
	GaN	Blue	465~475	3.0	3.6	102~200mcd		
Total flux of this LED is up to 50000 mlm / brightness 1000mcd.								
		5MM Fast/Slow Change RGB LED						
5XRGB-F2-F	AlGaInP	Super Red	620~640	2.0	2.25	800~1500mcd	30° 	
	InGan	Pure Green	515~530	3.3	4.0	2000~4000mcd		
	InGan	Blue	460~475	3.3	4.0	1000~2000mcd		
Total brightness of this LED is up to 7500 mcd Iv=60mA (20mA for each chip).								
5XRGB-F2-S	AlGaInP	Super Red	625~640	2.0	2.25	2000~4000mcd	30° 	
	InGan	Pure Green	520~530	3.3	4.0	6000~9000mcd		
	InGan	Blue	460~475	3.3	4.0	2000~4000mcd		
Total brightness of this LED is up to 17000 mcd Iv=60mA (20mA for each chip).								
		5MM RGB LED						
		6 pins, no common - every color has own CA/CC set						
Common Cathode Types								
Total brightness of this LED is up to 1900 mcd Iv=60mA(20mA for each chip)								
599R2GBC-CC (common anode)	GaAlInP	Super Red	625	2.0	2.5	310~435	85~100° 	
	GaN	Pure Green	525	3.5	4.0	770~1080		
	GaN	Royal Blue	460	3.5	4.0	200~390		
Total brightness of this LED is up to 9400 mcd Iv=60mA(20mA for each chip)								
Common Anode Types								
540R2GBC-CA (common anode)	GaAlInP	Super Red	625	2.0	2.5	1500~2100	35~40° 	
	GaN	Pure Green	525	3.5	4.0	4200~5800		
	GaN	Royal Blue	460	3.5	4.0	1100~1500		

COB LEDs 3W~120W

Order No.	Dimension in mm	CT	Vf (V)	mA	LM	Watt	CRI	Watt Range	Picture		
SG0N3W6-50mA	9.5×9.5×1	White 6000K	62	50	300	3	>70	≤4.5W			
SG0N3W3-50mA		Warm White 3000K			240		>80				
SG0N4.5W6-500mA		White 6000K	9.3	500	450	4.5	>70				
SG0N4.5W3-500mA		Warm White 3000K			360		>80				
RG3N5W6-500mA	Φ30×1	White 6000K	9.3	500	550	5	>70	≤7.5W			
RG3N5W3-500mA		Warm White 3000K			440		>80				
RG3N5W6-350mA		White 6000K	15.5	350	600	5	>70	≤7.5W			
RG3N5W3-350mA		Warm White 3000K			480		>80				
RG3N7W6-750mA		White 6000K	9.3	750	830	7	>70	≤10W			
RG3N7W3-750mA		Warm White 3000K			650		>80				
RG3N20W6-700mA		White 6000K	31	700	2600	20	>70	≤30W			
RG3N20W3-700mA		Warm White 3000K			2080		>80				
RG3N25W6-700mA		White 6000K	37.2	700	3100	25	>70	≤35W			
RG3N25W3-700mA		Warm White 3000K			2480		>80				
RG3N40W6-1400mA		White 6000K	31	1400	5000	40	>70	≤50W			
RG3N40W3-1400mA		Warm White 3000K			4000		>80				
SG4N4.5W6-30mA		22×17×1	White 6000K	150	30	460	4.5	>70		≤6.75W	
SG4N4.5W3-30mA			Warm White 3000K			370		>80			
SG4N6W6-30mA	White 6000K		200	30	650	6	>70	≤9W			
SG4N6W3-30mA	Warm White 3000K				520		>80				
SG4N10W6-350mA	White 6000K		28	350	1150	10	>70	≤15W			
SG4N10W3-350mA	Warm White 3000K				920		>80				
SG4N13W6-700mA	White 6000K		18.6	700	1550	13	>70	≤19.5W			
SG4N13W3-700mA	Warm White 3000K				1240		>80				
SG4N15W6-700mA	White 6000K		24.8	700	2050	15	>70	≤22W			
SG4N15W3-700mA	Warm White 3000K				1640		>80				
SG4N18W6-700mA	White 6000K		27.9	700	2300	18	>70	≤25W			
SG4N18W3-700mA	Warm White 3000K				1840		>80				

SG7N40W6-1400mA	28×28×1	White 6000K	30	1400	5400	40	>70	≤75W	
SG7N40W3-1400mA		Warm White 3000K			4300		>80		
SG7N50W6-1500mA		White 6000K	31	1500	5500	50	>70		
SG7N50W3-1500mA		Warm White 3000K			4400		>80		
SG7N60W6-1800mA		White 6000K	33	1800	6200	60	>70		
SG7N60W3-1800mA		Warm White 3000K			4960		>80		
SG9N80W6-1500mA	38×38×1	White 6000K	54	1500	10500	80	>70	≤150W	
SG9N80W3-1500mA		Warm White 3000K			8400		>80		
SG9N100W6-1800mA		White 6000K	56	1800	12000	100	>70		
SG9N100W3-1800mA		Warm White 3000K			9600		>80		
SG9N120W6-2000mA		White 6000K	60	2000	13000	120	>70		
SG9N120W3-2000mA		Warm White 3000K			10500		>80		
RG12N3W6-350mA	50×7×1	White 6000K	9.3	350	350	3	>70	≤4.5W	
RG12N3W3-350mA		Warm White 3000K			280		>80		
RG12N6W6-700mA		White 6000K	9.3	700	720	6	>70		
RG12N6W3-700mA		Warm White 3000K			570		>80		
SG15N3.5W6-25mA	Star(Φ11)	White 6000K	135	25	430	3.5	>70	≤5W	
SG15N3.5W3-25mA		Warm White 3000K			340		>80		
SG15N6.5W6-350mA		White 6000K	18.6	350	780	6.5	>70		
SG15N6.5W3-350mA		Warm White 3000K			620		>80		
SG15N7W6-50mA		White 6000K	150	50	800	7	>70		
SG15N7W3-50mA		Warm White 3000K			640		>80		
SG16N4.5W6-120mA	13.5×13.5×1	White 6000K	37.5	120	480	4.5	>70	≤6.75W	
SG16N4.5W3-120mA		Warm White 3000K			410		>80		
SG16N4.5W6-100mA		White 6000K	45	100	480	4.5	>70		
SG16N4.5W3-100mA		Warm White 3000K			410		>80		
SG16N6.5W6-180mA		White 6000K	36	180	690	6.5	>70		
SG16N6.5W3-180mA		Warm White 3000K			590		>80		
SG16N8.5W6-240mA		White 6000K	35.4	240	900	8.5	>70		
SG16N8.5W3-240mA		Warm White 3000K			770		>80		
SG17N11W6-300mA	19×19×1	White 6000K	36	300	1160	11	>70	≤16.5W	
SG17N11W3-300mA		Warm White 3000K			990		>80		
SG17N13W6-360mA		White 6000K	36	360	1370	13	>70		
SG17N13W3-360mA		Warm White 3000K			1170		>80		
SG17N17W6-480mA		White 6000K	36	480	1790	17	>70		
SG17N17W3-480mA		Warm White 3000K			1530		>80		
SG17N26W6-720mA		White 6000K	36	720	2730	26	>70		
SG17N26W3-720mA		Warm White 3000K			2340		>80		

1W POWER LEDs

350mA/3.5V



Emitter type with oval lenses
Angle 160/100 deg. Designed for street light

Order No.	Chip		Wave length (nm)	Electro-optical char.		Spatial Radiation Pattern	
	Raw mater.	Emitting color		Vf(V)			Flux/ @350(mA)
				Typ.	Max		
E12PW6C-O	GalN	White 4500~10000 K	---	3.5	4.0	60~80 lm	Lambertian (both angles)
E12PW3C-O	GalN	Warm White 3000~3600K	---	3.5	4.0	50~70 lm	Lambertian (both angles)
E12EB7C-O	GalN	Royal Blue	467	3.5	4.0	10~15 lm	Lambertian (both angles)
E12LG2C-O	GalN	Pure Green	522	3.5	4.0	60~70 lm	Lambertian (both angles)
E12LY9C-O	AlGalnP	Yellow (Amber)	588	2.6	3.5	30~40 lm	Lambertian (both angles)
E12LR2C-O	GalN	Super Red	624	2.6	3.5	30~40 lm	Lambertian (both angles)




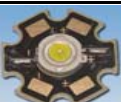
Emitter type with round lenses
Angle 120 deg.



Order No.	Chip		Wave length (nm)	Electro-optical char.		Spatial Radiation Pattern	
	Raw mater.	Emitting color		Vf(V)			Flux/ @350(mA)
				Typ.	Max		
E12PW6C	GalN	White 5000~8000K	---	3.5	4.0	50~90 lm	Lambertian
E12PW3C	GalN	Warm White 3000~3600K	---	3.5	4.0	50~80 lm	Lambertian
E12EB7C	GalN	Royal Blue	467	3.5	4.0	10~20 lm	Lambertian
E12LG2C	GalN	Pure Green	522	3.5	4.0	50~80 lm	Lambertian
E12LY9C	AlGalnP	Yellow (Amber)	588	2.5	2.8	30~50 lm	Lambertian
E12LR2C	AlGalnP	Super Red	624	2.5	2.8	30~50 lm	Lambertian



**Star type with round lenses
Angle 120 deg.**

Order No.	Chip		Wave length (nm)	Vf(V)		Flux/ @350(mA)	Spatial Radiation Pattern
	Raw mater.	Emitting color		Typ.	Max		
S12PW6C	GaN	White 5000~8000K	---	3.5	4.0	60~75 lm	Lambertian
S12PW3C	GaN	Warm White 2500~3600K	---	3.5	4.0	40~80 lm	Lambertian
S12EB7C	GaN	Royal Blue	467	3.5	4.0	10~20 lm	Lambertian
S12LG2C	GaN	Pure Green	522	3.5	4.0	50~70 lm	Lambertian
S12LY9C	AlGaInP	Yellow (Amber)	588	2.5	3.0	30~50 lm	Lambertian
S12LR2C	AlGaInP	Super Red	624	2.5	3.0	30~50 lm	Lambertian
S12CREEW6	GaN	White CREE Chip Very long life	---	3.5	4.0	70~90 lm	Lambertian
S12PW6C-B	GaN	White 6000~8000K	---	3.5	4.0	40~50 lm	Batwing
S12PW3C-B	GaN	Warm White 2500~3600K	---	3.5	4.0	40~50 lm	Batwing
S12EB7C-B	GaN	Royal Blue	467	3.5	4.0	10~20 lm	Batwing
S12LG2C-B	GaN	Pure Green	522	3.5	4.0	40~70 lm	Batwing
S12LY9C-B	AlGaInP	Yellow (Amber)	588	2.5	2.8	30~50 lm	Batwing
S12LR2C-B	AlGaInP	Super Red	624	2.5	2.8	30~50 lm	Batwing

3W POWER LEDs							
400mA/9.3V							
	Star type with no lenses Angle 120 deg.						
Order No.	Chip		Dom. Wave length (nm)	Electro-optical characteristics		Flux @ 400 mA	Spatial Radiation Pattern
	Raw mater.	Emitted color		Vf (V)			
				Typ.	Max.		
SR12N3W6C	GalN	White 5000~6500K	---	9.3	---	280-400 lm	Lambertian
SR12N3W3C	GalN	Warm White 2500~3500K	---	9.3	---	200~320 lm	Lambertian
700mA/3.5V							
	Star type with round lenses Angle 120 deg.						
Order No.	Chip		Wave length (nm)	Electro-optical char.		Flux/ @350(mA)	Spatial Radiation Pattern
	Raw mater.	Emitting color		Vf(V)			
				Typ.	Max.		
S12N3W6C	GalN	White 5000~8000K	---	3.5	4.0	100~160 lm	Lambertian
S12N3W3C	GalN	Warm White 2500~3600K	---	3.5	4.0	80~140 lm	Lambertian

3W POWER LEDs							
320mA/9.2V							
	Circular type with no lenses Angle >120 deg.						
Order No.	Chip		Wave length (nm)	Electro-optical char.		Flux/ @350(mA)	2Ø1/2 Half intensity angle(deg)
	Raw mater.	Emitting color		Vf(V)			
				Typ.	Max.		
3VAC9CW6	GalN	White 5000~8000K	---	9.2	10	160~280 lm	120
3VAC9CW3	GalN	Warm White 3000~3600K	---	9.2	10	140~240 lm	120
4W Power LEDs							
400mA/12.8V							
	Circular type with no lenses Angle 120 deg.						
Order No.	Chip		Dom. Wave length (nm)	Electro-optical characteristics		Flux @ 400 mA	2ø1/2 Half intensity angle (deg)
	Raw mater.	Emitted color		Vf (V)			
				Typ.	Max.		
4VAC13CW6	GalN	White 5000~6500K	---	12.8	---	400-600 lm	120°
4VAC13CW3	GalN	Warm White 2500~3500K	---	12.8	---	280~450 lm	120°

5W POWER LEDs

540mA/9.2V

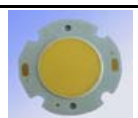


Circular type with no lenses
Angle 120 deg.

Order No.	Chip		Wave length (nm)	Electro-optical char.			2 θ 1/2 Half intensity angle(deg)
	Raw mater.	Emitting color		Vf(V)		Flux/ @350(mA)	
				Typ.	Max.		
5VAC9DW6	GalN	White 5000~8000K	---	9.2	10	320~500 lm	120
5VAC9DW3	GalN	Warm White 3000~3600K	---	9.2	10	240~400 lm	120

10W Power LEDs

400mA/29V

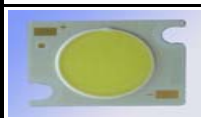


Circular type with no lenses
Angle 120 deg.

Order No.	Chip		Wave length (nm)	Electro-optical char.			2 θ 1/2 Half intensity angle (deg)
	Raw mater.	Emitted color		Vf (V)		Flux @ 400 mA	
				Typ.	Max.		
10VAC30DW6	GalN	White 5000~6500K	---	29	---	800-1400 lm	120°
10VAC30DW3	GalN	Warm White 2500~3500K	---	29	---	600~900 lm	120°

7W Power LEDs

400mA/19.2V

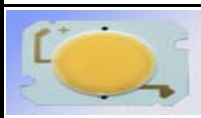


Square type with no lenses
Angle 120 deg.

Order No.	Chip		Wave length (nm)	Electro-optical char.			2 θ 1/2 Half intensity angle (deg)
	Raw mater.	Emitted color		Vf (V)		Flux @ 400 mA	
				Typ.	Max.		
SS12N7W6C	GalN	White 5000~6500K	---	19.2	---	600-900 lm	120°
SS12N7W3C	GalN	Warm White 2500~3500K	---	19.2	---	450-700 lm	120°

8W Power LEDs

400mA/22.5V



Square type with no lenses
Angle 120 deg.

Order No.	Chip		Wave length (nm)	Electro-optical char.			2 θ 1/2 Half intensity angle (deg)
	Raw mater.	Emitted color		Vf (V)		Flux @ 400 mA	
				Typ.	Max.		
SS12N8W6C	GalN	White 5000~6500K	---	22.5	---	600-900 lm	120°
SS12N8W3C	GalN	Warm White 2500~3500K	---	22.5	---	500-800 lm	120°

5W Power LEDs

700mA/12V



"Rail" type with "jell-o" lenses
Angle >120 deg. 700mA/12V

Order No.	Chip		Dom. Wave length (nm)	Electro-optical characteristics			2 ϕ 1/2 Half intensity angle (deg)
	Raw mater.	Emited color		Vf (V)		Flux @ 400 mA	
				Typ.	Max.		
5VAM12DW6C	GaN	White 5000~8000K	---	6	7.5	240~400 lm	Lambertian
5VAM12DW3C	GaN	Warm White 2500~3600K	---	6	7.5	180~360 lm	Lambertian

10W POWER LEDs

700mA/12V



"Rail" type with "jell-o" lenses
Angle >120 deg.

Order No.	Chip		Wave length (nm)	Electro-optical char.			Spatial Radiation Pattern
	Raw mater.	Emitting color		Vf(V)		Flux/ @350(mA)	
				Typ.	Max.		
10VAL12HW6C	GaN	White 5000~8000K	---	12	15	450~700 lm	Lambertian
10VAL12HW3C	GaN	Warm White 2500~3600K	---	12	15	360~600 lm	Lambertian

20W POWER LEDs

1400mA/12V



"Rail" type with "jell-o" lenses
Angle >120 deg.

Order No.	Chip		Wave length (nm)	Electro-optical char.			Spatial Radiation Pattern
	Raw mater.	Emitting color		Vf(V)		Flux/ @350(mA)	
				Typ.	Max.		
20VAL12HW6C	GaN	White 5000~8000K	---	12	15	900~1400 lm	Lambertian
20VAL12HW3C	GaN	Warm White 2500~3600K	---	12	15	800~1200 lm	Lambertian

LED Module

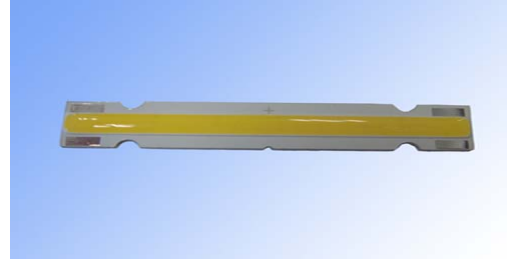
LM-60X16 LED Backlight Series

LM-W6-60X10-1W

White 5000K-6500K,1W,DC9.5V,100LM

LM-W6-60X10-3W

White 5000K-6500K,3W,DC9.5V,300LM



LM-36X36 LED Backlight Series

LM-W6-36X36-4P-12V

White 5500-6200K,1W,DC12V,50LM;

LM-W3-36X36-4P-12V

Warm White 3600-3900K,1W,DC12V,40LM



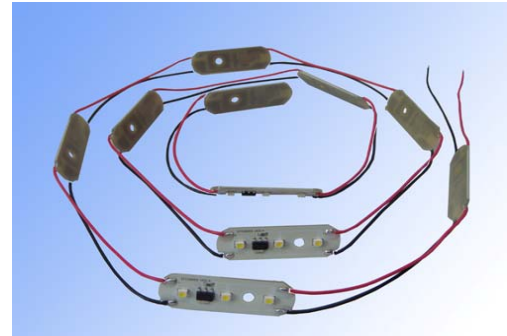
LM-50X16 LED Backlight Series

LM-W6-50X16-0.3W-12V

White 6000K,0.3W,DC12V,18LM

LM-W3-50X16-0.3W-12V

Warm White 3200-3800K,0.3W,DC12V,15LM



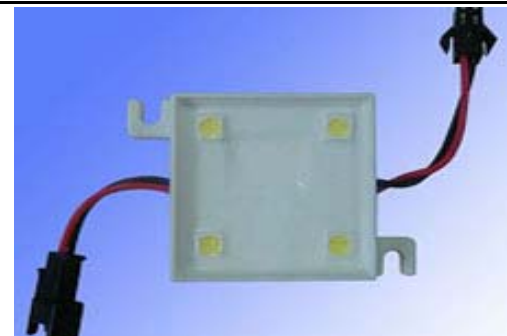
LM-40X40 LED Backlight Series

LM-W6-40X40-4P-12V

White 6000K-8000K,60-80mA(1W),40LM

LM-W3-40X40-4P-12V

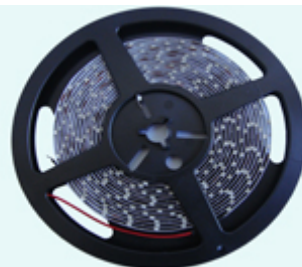
White 3500K-4000K,60-80mA(1W),35LM



X-type LED Strips

New Flexible LED Strip

- Flexible PCB ribbon construction, IP64
- With Self-adhesive tape on whole length of the backside
- Very long expected life of 30000 hours
- Made of Super Bright Top LED
- For indoor applications
- Voltage 12VDC, Low power consumption
- Smallest unit is 1M , 5M=one reel



STRF4-3528-R60-12V Red 620-630nm, 44-55lm
STRF4-3528-G60-12V Green 585-595nm, 44-54lm
STRF4-3528-Y60-12V Yellow 510-525nm, 76-96lm

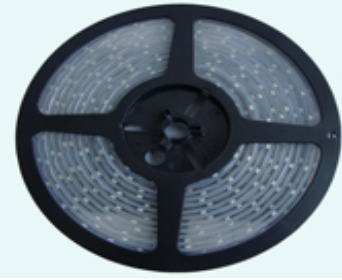
- Flexible PCB ribbon construction, IP64
- With Self-adhesive tape on whole length of the backside
- Very long expected life of 30000 hours
- Made of Super Bright Top LED
- For indoor applications
- Voltage 12VDC, Low power consumption
- Smallest unit is 1M , 5M=one reel



STRF5-5050-R30-12V Red 620-630nm, 200-240lm
STRF5-5050-G30-12V Green 585-595nm, 200-240lm
STRF5-5050-B30-12V Blue 455-470nm, 150-190lm
STRF5-5050-Y30-12V Yellow 510-525nm, 220-260lm
STRF5-5050-W3-12V Warm White 2700-3300K, 200-230lm
STRF5-5050-W6-12V White 5500-6500K, 300-320lm

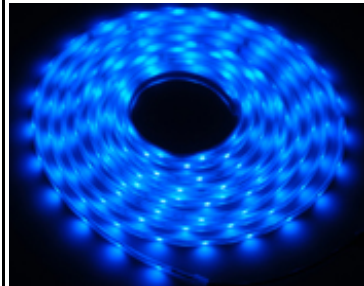
New Water Proof Flexible LED Strip

- Water Proof, IP66
- Very long expected life of 30000 hours
- Made of Super Bright Top LED
- Suitable i.e. for channel letters lighting
- Voltage 12VDC, Low power consumption
- Minimum order quantity is 5M , 5M=one reel



STRF4-3528-R60-12V-WP-T Red 620-630nm, 44-54lm
STRF4-3528-G60-12V-WP-T Green 585-595nm, 44-54lm
STRF4-3528-Y60-12V-WP-T Yellow 510-525nm, 76-96lm

- Water Proof, IP66
- Very long expected life of 30000 hours
- Made of Super Bright Top LED
- Suitable i.e. for channel letters lighting
- Voltage 12VDC, Low power consumption
- Minimum order quantity is 5M , 5M=one reel



STRF5-5050-R30-12V-WP-T Red 620-630nm, 200-240lm
STRF5-5050-G30-12V-WP-T Green 585-595nm, 200-240lm
STRF5-5050-B30-12V-WP-T Blue 455-470nm, 150-190lm
STRF5-5050-Y30-12V-WP-T Yellow 510-525nm, 220-260lm
STRF5-5050-W3-12V-WP-T Warm White 2700-3300K, 200-230lm

New RGB Flexible LED Strip

Order No. **STRF5-5050-RGB-12V**

- Flexible PCB ribbon construction, IP64
- Very long expected life of 30000 hours
- Made of Super Bright Top LED
- For indoor applications
- Voltage 12VDC, Low power consumption
- Minimum order quantity is 5M , 5M=one reel



Order No. **STRF5-5050-RGB-12V-WP-T**

- Water proof IP66, Flexible PCB ribbon construction
- Very long expected life of 30000 hours
- Made of Super Bright Top LED
- For indoor applications
- Voltage 12VDC, Low power consumption
- Minimum order quantity is 5M , 5M=one reel



LED Strips

Strip for channel letters

Minimum order of each single color is 200pcs.

STRF33R	Red 624nm, 5000~10000mlm
STRF33Y	Amber (Yellow) 589nm, 5000~10000mlm
STRF33B	Blue 470nm, 3000~4000mlm
STRF33G	Pure green 525nm, 10000~14000mlm
STRF33W6	White 6000~10000K, 14000~20000mlm
STRF33W3	Warm White 2500~3500K, 12000~18000mlm



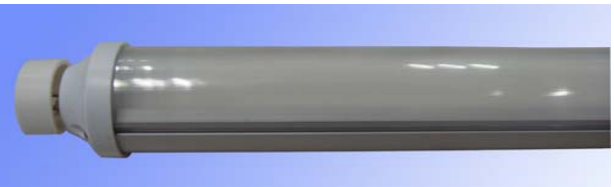
STR3 type - LED Strip on PCB

STR3-18R-120	Red 624nm, 30~70lm
STR3-18Y-120	Amber (Yellow) 589nm, 30~70lm
STR3-18B-120	Blue 470nm, 9~16lm
STR3-18G-120	Pure green 525nm, 30~80lm
STR3-18W6-120	White 4000~8000K, 40~90lm
STR3-18W3-120	Warm White 3000~4000K, 35~80lm



LED Tube

T8-W6-220V-588-(9W)-D White 6000K,AC200-240V(9W),750LM
T8-W3-220V-588-(9W)-D Warm White 3200-3800K,AC200-240V(9W),650LM
T8-W6-220V-1198-(19W)-D White 6000K,AC200-240V(19W),1500LM
T8-W3-220V-1198-(19W)-D Warm White 3200-3800K,AC200-240V(19W),1300LM



LED Bulbs

G60 LED Bulb

G60-9W-W6-E27

White 5500-6200K AC220V(9W),700lm,base E27;



G60-9W-W3-E27

Warm White 2700-3200K AC220V(9W),650lm,base E27;

G60-6W-W6-E27

White 5600-6200K AC230V(6W),400lm,base E27;



G60-6W-W3-E27

Warm White 3600-3900K AC230V(6W),380lm,base E27;

G60-6W-W6-GU10

White 5600-6200K AC230V(6W),400lm,base GU10;



G60-6W-W3-GU10

Warm White 3600-3900K AC230V(6W),380lm,base GU10;

GU60-5W-W6-E27

White 5500-6200K,AC220V(5W),400LM,base E27



GU60-5W-W3-E27

Warm White 2700-3200K,AC220V(5W),350LM,base E27

GU60-3W-W6-E27

White 6000K,AC220V(3W),260LM,base E27



GU60-3W-W3-E27

Warm White 3500K,AC220V(3W),200LM,base E27

MR16-5W LED Bulb

MR16-5W-W6-GU10

White 5500-6200K,AC220V(5W),300LM,base GU10



MR16-5W-W3-GU10

Warm White 3600-3900K,AC220V(5W),260LM,base GU10

MR16-3.5W Spotlight

MR16-3.5W-W6-GU10

White 6000K,AC100-240V(3.5W),210LM,base GU10



MR16-3.5W-W3-GU10

Warm White 4000K,AC100-240V(3.5W),160LM,base GU10

<p>MR16-3.5W-W6-E27 White 6000K,AC100-240V(3.5W),180LM,base E27</p>	
<p>MR16-3.5W-W3-E27 Warm White 3500K,AC100-240V(3.5W),160LM,base E27</p>	
<p>MR16-3.5W-W6-GU5.3 White 6000K,AC/DC12V(3.5W),220LM,base GU5.3</p>	
<p>MR16-3.5W-W3-GU5.3 Warm White 3500K,AC/DC12V(3.5W),200LM,base GU5.3</p>	
<p>MR16-3X1W LED Bulb</p>	
<p>MR16-3X1W-W6-E27 White 6000K AC220V(3W),180lm,base E27;</p>	
<p>MR16-3X1W-W3-E27 Warm White 3500K AC220V(3W),150lm,base E27;</p>	
<p>MR16-3X1W-W6-GU10 White 6000K AC220V(3W),180lm,base GU10;</p>	
<p>MR16-3X1W-W3-GU10 Warm White 3500K AC220V(3W),150lm,base GU10;</p>	
<p>MR16 2W LED Bulb</p>	
<p>MR16-36PCS(2W)-W6-E27 White 6000K AC220V(2W),115lm,base E27;</p>	
<p>MR16-36PCS(2W)-W3-E27 Warm White 3500K AC220V(2W),90lm,base E27;</p>	
<p>MR16-36PCS(2W)-W6-GU10 White 6000K AC220V(2W),115lm,base GU10;</p>	
<p>MR16-36PCS(2W)-W3-GU10 Warm White 3500K AC220V(2W),90lm,base GU10;</p>	
<p>C40 1.5W Candle LED Bulb</p>	
<p>C40-1.5W-W3-E27 Warm White 3500K AC220V(1.5W),80lm,base E27;</p>	