



YJ-BC-HRB-2835L-12V-G01

High CRI LED Flex Strip

PRODUCT:

HIGH CRI LED FLEX STRIP BC Hybrid Color Temperature 2835L 12V

FEATURES:

- 10 mm width flexible PCB with adhesive backing
- 5-meter length per roll
- 95 CRI, 2700K/3200K/5600K/6500K
- 15 W / meter (4.6 W / foot)
- 12V constant voltage compatible
- 50K hour lifetime
- Cuttable every 6 LEDs (50 mm)



DESCRIPTION

High CRI LED flexible strips are extremely versatile and can be installed in a variety of linear and curved surfaces alike. Enhanced copper traces with precision SMT resistors provide consistently high power and brightness. 3M® adhesive backing allows for quick installation.

ELECTRICAL-OPTICAL CHARACTERISTICS (T _c = 25 °C)							
PARAMETER	SYMBOL	VALUE			UNIT	TOLERANCE	CONDITION
		MIN.	TYP.	MAX.			
Power per meter*	--	--	15	18	W	--	V _f = 12V
Forward Current per meter	I _f	--	1.25	1.5	A	--	V _f = 12V
Luminous flux per meter	Φ _{2700K}	--	450	--	lm	--	V _f = 12V
	Φ _{3200K}	--	450	--			
	Φ _{5600K}	--	650	--			
	Φ _{6500K}	--	650	--			
Color temperature	CCT _{2700K}	2625±75		2775±75	K	--	V _f = 12V
	CCT _{3200K}	3125±75		3275±75			
	CCT _{5600K}	5450±150		5750±150			
	CCT _{6500K}	6250±250		6750±250			
Color rendering index	Ra**	95	--	--	--	--	V _f = 12V
TCS R9 (CRI Red)	R9	--	70	--	--	--	V _f = 12V
Chromaticity coordinates	(X,Y)	--	--	--	--	±0.005	--
Viewing angle	2θ1/2	--	120	--	Deg	±5	V _f = 12V

*Unless otherwise noted, specifications are based on a 1 meter segment. Due to electrical resistance, power draw per meter decreases approximately by 0.05A for each additional meter increase per segment.

**Ra minimum 93 at 6500K.



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ORDERING INFORMATION		
PART NUMBER	CCT	CHROMATICITY BINS
YJ-BC-RB-2835L-12V-G01-2765	2700K ± 150K	F6-1, F9-1, F5-2, F8-2
	6500K ± 500K	B7-1, B9-1, B7-2, B9-2
YJ-BC-RB-2835L-12V-G01-3256	3200K ± 150K	F4-2, F7-2, F5-1, F8-1
	5600K ± 300K	B8-2, B10-2, C3-1, C5-1
YJ-BC-RB-2835L-12V-G01-XXXX	CUSTOM	

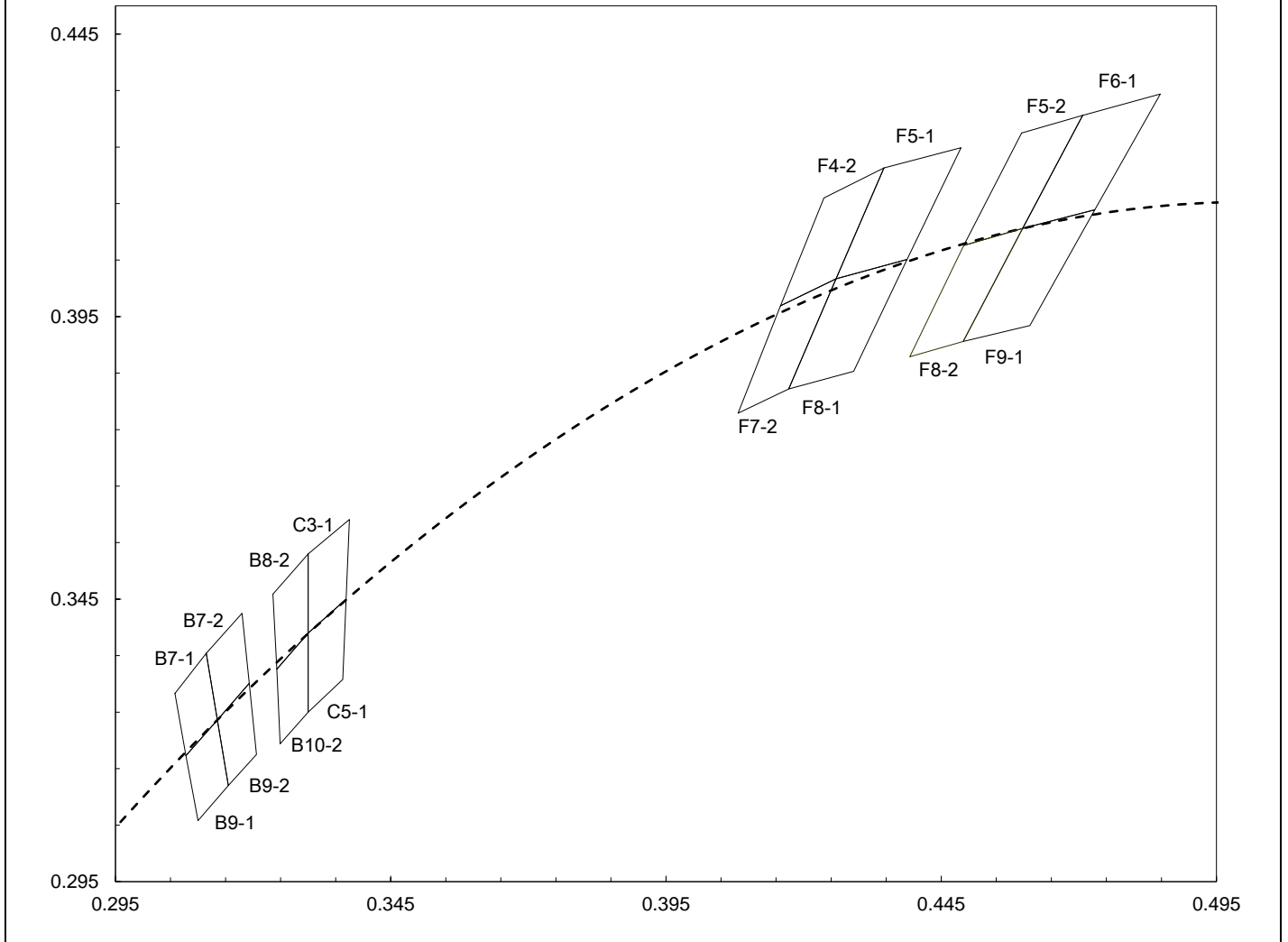
ABSOLUTE MAXIMUM RATING (T _c = 25 °C)			
PARAMETER	SYMBOL	LIMIT	UNIT
Power Consumption	P _D	18	W/m
Operating Temperature	T _{opr}	-40 ~ +85	°C
Storage Temperature	T _{stg}	-30 ~ +85	°C

CHROMATICITY BINS & COORDINATES									
CCT	BIN	CIE 1931 COORDINATES							
		X0	Y0	X1	Y1	X2	Y2	X3	Y3
6500K	B7-2	0.3115	0.3354	0.3135	0.3236	0.3193	0.3301	0.3180	0.3425
	B9-2	0.3135	0.3236	0.3155	0.3120	0.3206	0.3175	0.3193	0.3301
	B7-1	0.3058	0.3283	0.3078	0.3173	0.3135	0.3236	0.3115	0.3354
	B9-1	0.3078	0.3173	0.3100	0.3058	0.3155	0.3120	0.3135	0.3236
5600K	B8-2	0.3236	0.3459	0.3243	0.3326	0.3300	0.3390	0.3300	0.3530
	B10-2	0.3243	0.3326	0.3249	0.3194	0.3300	0.3250	0.3300	0.3390
	C3-1	0.3300	0.3530	0.3300	0.3390	0.3369	0.3450	0.3375	0.3591
	C5-1	0.3300	0.3390	0.3300	0.3250	0.3363	0.3308	0.3369	0.3450
3200K	F4-2	0.4237	0.4160	0.4158	0.3969	0.4259	0.4017	0.4346	0.4213
	F7-2	0.4158	0.3969	0.4081	0.3779	0.4173	0.3822	0.4259	0.4017
	F5-1	0.4346	0.4213	0.4259	0.4017	0.4388	0.4051	0.4486	0.4249
	F8-1	0.4259	0.4017	0.4173	0.3822	0.4291	0.3853	0.4388	0.4051
2700K	F6-1	0.4707	0.4306	0.4598	0.4106	0.4729	0.4139	0.4848	0.4344
	F9-1	0.4598	0.4106	0.4490	0.3906	0.4611	0.3934	0.4729	0.4139
	F5-2	0.4596	0.4275	0.4491	0.4076	0.4598	0.4106	0.4707	0.4306
	F8-2	0.4491	0.4076	0.4393	0.3879	0.4490	0.3906	0.4598	0.4106



CHROMATICITY BINS & COORDINATES

CIE 1931 COORDINATES

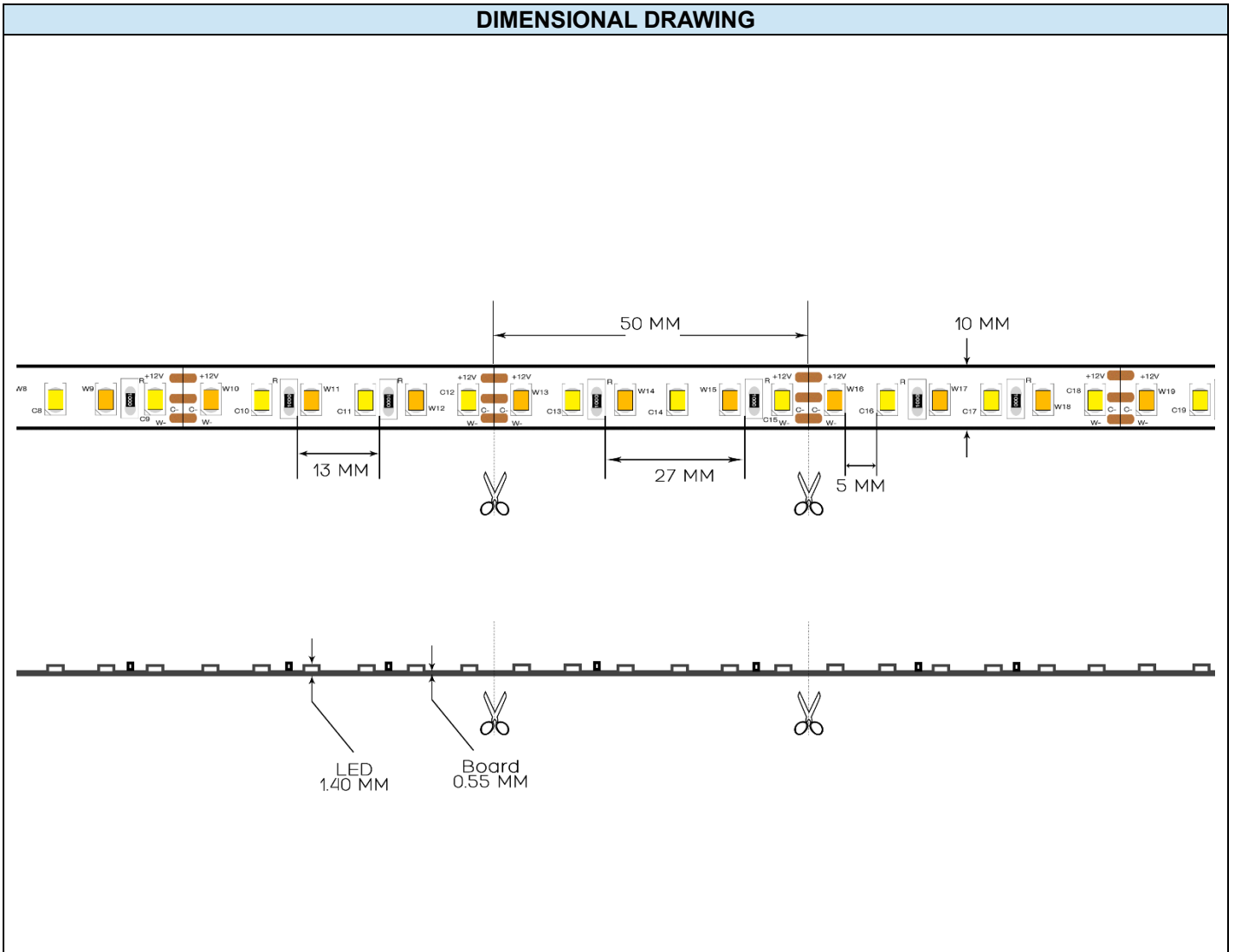




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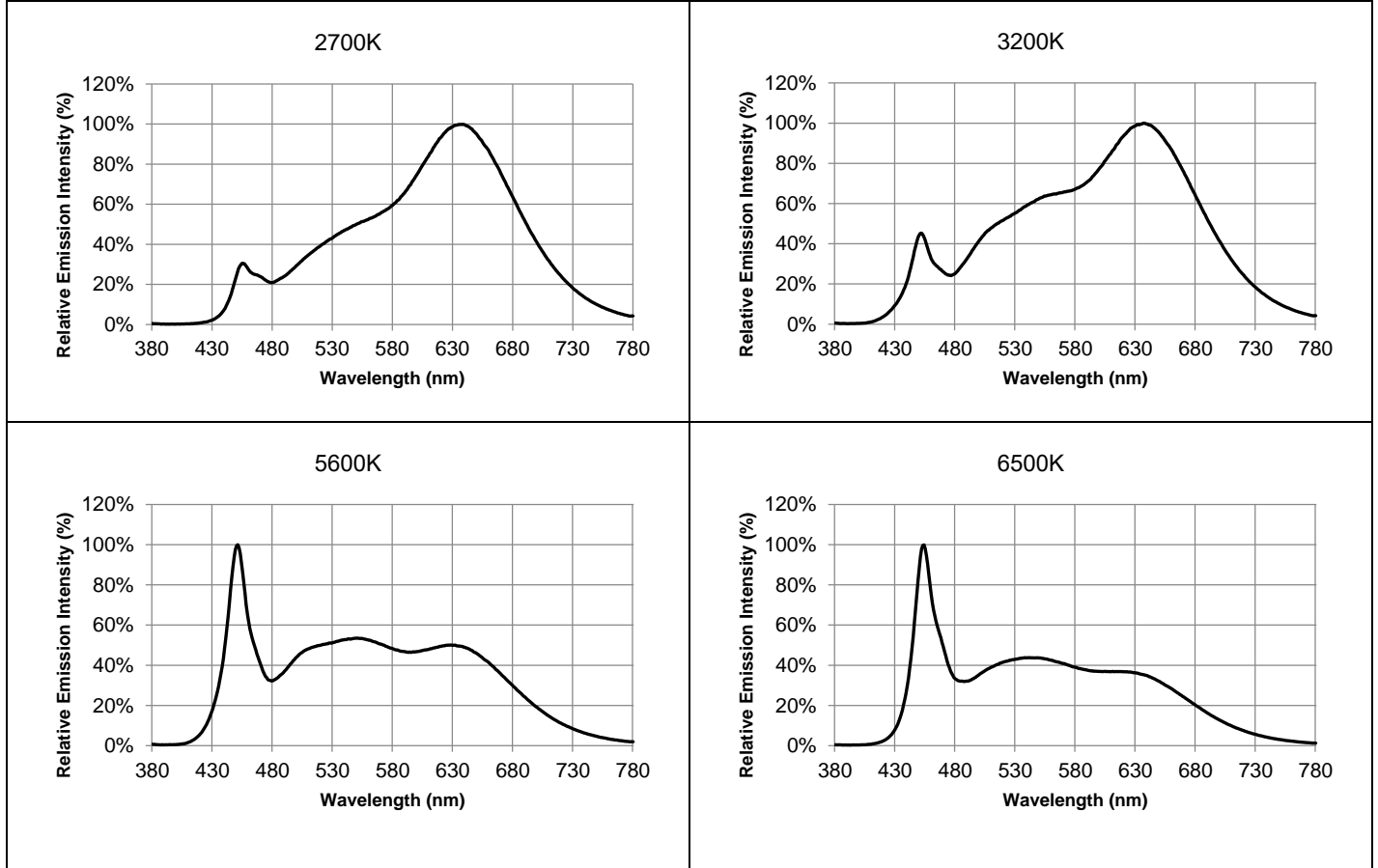
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DIMENSIONAL DRAWING





TYPICAL SPECTRAL DISTRIBUTION GRAPHS



ADDITIONAL NOTES

SELECTING A POWER SUPPLY

The wattage/amperage requirement is directly proportional to the length of LED flexible strip installed. Calculate the power requirement by multiplying the total length in meters by the maximum wattage or amperage per meter. For additional power supply stability, we recommend specifying 25% additional power capacity above the requirement. For example, a 5 meter length would require 5 meters x 18 W / meter = 90W; for power supply stability, we would recommend a power supply that is capable of supplying at least W (60W + 25% x 60W).

DIMMING

Our LED flex strips are compatible with 1-10V and PWM dimming systems.

HEAT MANAGEMENT

Heatsinking is not necessary if product is used in standard indoor environments where ambient temperatures do not exceed 50°C. Our testing at Ta = 25°C shows LED solder point temperatures stabilizing at 68°C. Maximum allowed LED solder point temperature is 105°C.