



LED Modules - Color Tunable Linear

Data Sheet

Version 1.0

Power of Luminus in Standard and Custom LED Modules

Lean & Fast, Made Smarter.

Design Faster – use standard modules to shorten development time

Easy Integration – use standard 2-Channel LED drivers and dimmers

Maximum Flexibility – designed to Zhaga dimensions and screw hole specifications **Innovation** – work with NewEnergy on a custom solution

Primary Applications









Hospitality & Hotel Restaurant Architectural Residential Retail Shop Entertainment Transportation

Superior Performance in Standard & Custom Modules

- Independent CCT and Dimming control
- CCT ranging from 2700K 6500K
- 9000 hour LM-80 data at 250mA per LED
- Talk to NewEnergy about custom or private label designs

Enhance Your Next Design

The Color Tunable LED Modules from NewEnergy enable lighting manufacturers the flexibility to reproduce both the warm glow traditionally associated with halogen light sources and cool white color temperatures. Compatible with most 2-channel LED drivers and standard dimmer switches, these NewEnergy modules will simplify your lamp design.

Custom Solutions

NewEnergy operates facilities globally with ISO certifications for the LED lighting, automotive and medical industries. Our North Carolina based office provides quick engineering & sales support with an R&D lab for prototype development and custom solutions. Our in-house alobal manufacturing capabilities allow for both building in the United States as well as overseas at scale.

About NewEnergy

NewEnergy accelerates the adoption of LED technology through simple, modular products and custom designs. Through 30 years of experience, state of the art manufacturing, full traceability and advanced quality controls, NewEnergy offers leading solid state lighting components, modules and custom solutions. NewEnergy customers get to market faster, with less resources, at lower costs. Visit New-EnergyLLC.com for more information.





ATTENTION

OBSERVE PRECAUTIONS FOR HANDLING **ELECTROSTATIC** SENSITIVE DEVICES

Last Modified: 01/26/2021

LED Module Specifications - Color Tunable Linear

Product Selection Table

Part Number	LED Channel Config CRI (Min)	CRI	CCT	Luminous Flux (lm)		Efficacy (Im/W)		Watts (W)	
		(Min)		480mA (Typical)	600mA (Max)	480mA (Typical)	600mA (Max)	480mA (Typical)	600mA (Max)
CSB1-72G02-6527-90-00	Warm - On Cool - On	90	4100K	4001	4852	117.5	111.4	34.1	43.6
	Warm - On Cool - Off	90	2700K	1833.7	2214.4	107.49	101.56	17.1	21.8
	Warm - Off Cool - On	90	6500K	2409	2931	127.6	121.2	17.0	21.8

⁽¹⁾ Typical Drive Current: 480mA, Max Drive Current: 600mA

Order Code Formatting

Series	- LED - Count	LED Code	Color Temp - Range	Color - Rendering Index	- Internal Code
CSB1 - Color Tunable LED PCB Assembly, Linear	72 - 72 LEDs	G02 - MP-1616 XNOVA Cube	6527 - 6500K to 2700K	90 - 90 CRI	00
			4018 - 4000K to 1800K (Future Product)		



⁽²⁾ NewEnergy may ship modules in flux bins higher than the values specified by the order code without advance notice. Shipments will always adhere to the chromaticity bin restrictions specified by the order code.

LED Module Specifications - Color Tunable Linear

Electrical Characteristics

Part Number	Cool Channel Fo	rward Voltage (v)	Warm Channel Forward Voltage (v)		
	480mA (Typical)	600mA (Max)	480mA (Typical)	600mA (Max)	
CSB1-72G02-x	35.4	36.3	35.5	36.3	

Intended for connection to a class 2 power source with a maximum operating voltage of 50

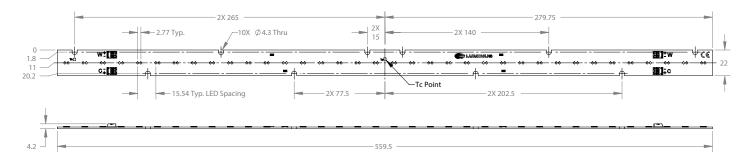
Maximum Ratings

Part Number	DC Current Per Channel (mA)	Tc Temp (°C)	Cool Channel Power (W)	Warm Channel Power (W)
CSB1-72G02-x	600	105	21.8	21.8

Board Material Properties

Property	Value	Unit
Solder Mask Color	White	-
Thickness	.062	in
Construction	CEM3	-
Temperature	130	°C
Flame Rating	V-0	
Copper Thickness	1	OZ

Mechanical Dimensions

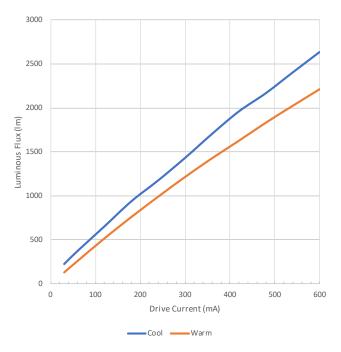


- 1. Four Poke-In Connectors accept 18-24 AWG solid or stranded wire
- 2. Recommended Mounting Hardware: 10x M3-.5 Socket Head Cap Screws

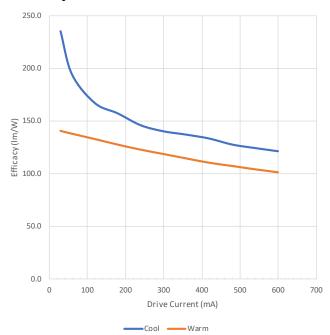


LED Module Specifications - Color Tunable Linear

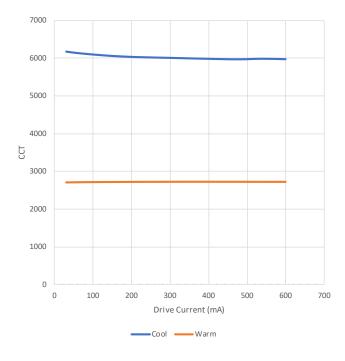
Luminous Flux vs. Current



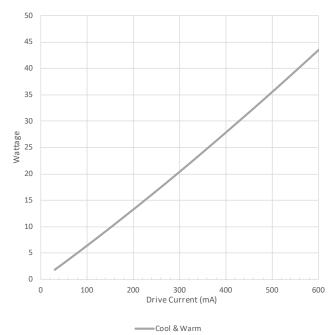
Efficacy vs. Current



CCT vs. Current



Power vs. Current



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for LED Lighting Bars and Strips category:

Click to view products by New Energy manufacturer:

Other Similar products are found below:

ZLF0310W62524 LF1D-F2F-2W-300 00215258 HH-SWW528F210W12-COB IP65 HH-SG528F010W24-COB IP20 LF2D-EN2F-2W-A 10001622 LFBHL-SW827-24V-8S63-20 LFBHL-SW860-24V-8S63-20 LFBHL-SW940-24V-8S63-20 HH-SRGB60F010W24-5050M N006120BB1LZ (GREEN) N006120BB1LZ (ICE BLUE) N006120BB1LZ (RED) N006120BC1LZ (BLUE) N006120BC1LZ (GREEN) N006120BC1LZ (GOLDEN YELLOW) N006120BC1LZ (RED) RF-G27HI3510-241202081-A0 IP20 S010030CB3SB7 S010030CB3SB7 (BLACK PCB) S010060CB1LZ (NEUTRAL WHITE IP65) S010060CB1LZ (WARM WHITE IP65) S010060CB3SB7 S010060CC1LZ (WARM WHITE IP65) S012060CB4ST (BLACK PCB) 2633830000 00219015 10001611 10001612 10001617 10001619 10001623 10001655 10001657 10001661 10001664 10001670 10001674 10001675 10001681 10001683 10001690 PUUA-100LLL-NK2P HC-F12V-3535 PCBA HC-F12V-F50-3L-WS2811 HC-F12V-WS2811-3535 HC-F5V-144L-144LED-B-WS2813 IP65 HC-F5V-30L-30LED-B-WS2813 IP20 HC-F5V-30L-30LED-W-WS2813 IP20