waveform lighting

PN: 7031

Infrared LED Strip Lights

Waveform Lighting's Infrared LED strip lights provide high power infrared light centered at 850 nm. Infrared is not visible to the human eye, but can be used for various camera & sensing installations, as well as medical and therapeutic applications.

The back side of the LED strip includes pre-applied 3M VHB® double-sided tape, which provides a simple but extremely strong adhesive mounting method for all of your projects.

The LED strips are 16.4 feet (5.0 meters) in length (also available as short 3.2 ft reels), and are conveniently reeled for quick and easy application, and can be cut to length every 1-inch (25 mm) with just a pair of scissors.

FEATURES

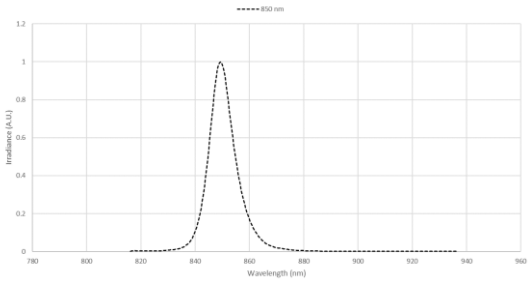
- Emits 850 nm infrared light
- Available in either full reel (5 meter) or short reel (1 meter)
- 12V DC input
- Power consumption of 4.8 watts per foot (14 watts per meter)
- For indoor use only

PHOTOMETRIC SPECIFICATIONS

Infrared Output (per foot):	1.9 watts
Radiometric Efficiency:	40%
Spectrum FWHM:	10 nm
Emission angle:	120 deg

Download full photometric reports at
https://www.waveformlighting.com/photometrics

TYPICAL EMISSION SPECTRUM



ELECTRICAL SPECIFICATIONS

Input type:	Constant Voltage
Input voltage:	12V DC
Current draw per ft:	400 mA @ 12V DC
Current draw per full reel:	6.0 A @ 12V DC
Power draw per ft:	4.8 W @ 12V DC
Power draw per full reel:	72 W @ 12V DC
Max run:	16.4 ft (5 meters)

MECHANICAL SPECIFICATIONS (FULL REEL)

Length:	16.43 ft (5008 mm)
Width:	0.394 in (10 mm)
Height:	0.067 in (1.7 mm)
LED spacing (OC):	0.327 in (8.3 mm)
Cut-line spacing:	0.984 in (25 mm)
PCB copper thickness:	4 oz
Connection (both ends):	Female DC 2.1 x 5.5 mm connector

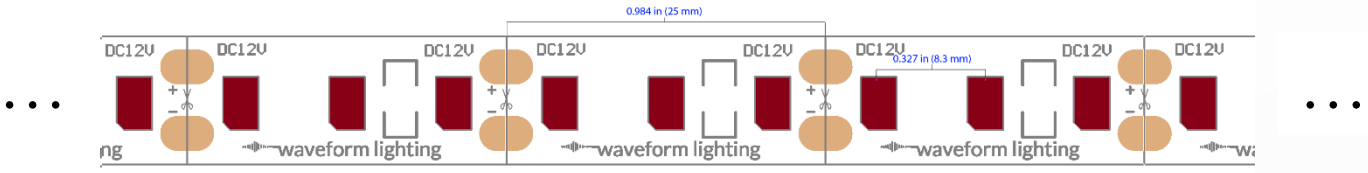
POWER SUPPLY SELECTION

Compatible with Waveform Lighting PN 3091 or third-party 12V DC constant voltage power supply. If you choose to utilize a third-party power supply unit, you will need to ensure that the power capacity of the power supply is sufficient for the length of LED strip being connected. Use the table below to determine if the power supply is sufficient for your project.

Length	Minimum Power Supply Capacity
1 ft:	600 mA / 7 W
3 ft:	1.8 A / 22 W
6 ft:	3.6 A / 43 W
9 ft:	5.4 A / 65 W
12 ft	7.2 A / 86 W
16.4 ft	9.0 A / 108 W

Length	Minimum Power Supply Capacity
0.5 m:	900 mA / 11 W
1.0 m:	1.8 A / 22 W
2.0 m:	3.6 A / 43 W
3.0 m:	5.4 A / 65 W
4.0 m:	7.2 A / 86 W
5.0 m:	9.0 A / 108 W

MECHANICAL DRAWING & DIMENSIONS



(This drawing is an excerpt that shows just three complete, cuttable sections. Each reel consists of 200 of these sections).

PART NUMBERS AND ORDERING

Short reel:	7031.85
Full reel:	7041.850.5M