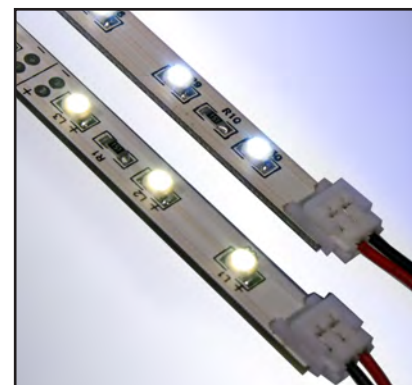
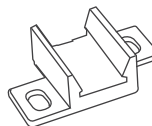
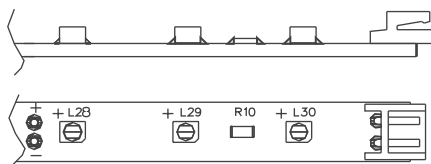


LED Light Bars

Part # ZRS-8480-CW

ZRS-8480-WW

Pb Free



Applications

LED light bars are most commonly used in backlighting signs, architectural accent lighting, display case illumination and decorative lighting.

Power Input

The ZRS bars require 12 VDC, each unit uses 200mA. The input connector (P/N ZCH-200-I) plugs into the strip and has wire leads to accept 12 VDC.

Bar Length

Length - 485mm (19.1"), Width - 8mm (.31"), Height - 5.6mm (.22"). Each bar breaks into 10 sections of 3 chips.

JKL can offer the LED bars cut to specified lengths. If you plan to cut the board on your own, the use of a small hand saw with a fine tooth blade to reduce vibration is recommended. Do not use wire cutters or shears.

Output Dimming

Optimum dimming is accomplished with a PWM dimmer, which will maintain operating voltage to the light bar. Varying the duty-cycle to the LED will permit easy changes to the light output. Less sophisticated, simpler application designs (accent lighting, case lighting) can simply apply a lower voltage (from 12 to 8 VDC) to the strip to obtain desired brightness levels.

Cautions

LEDs are electrostatic sensitive devices (ESD). Take appropriate precautions during handling and installation of the strips.

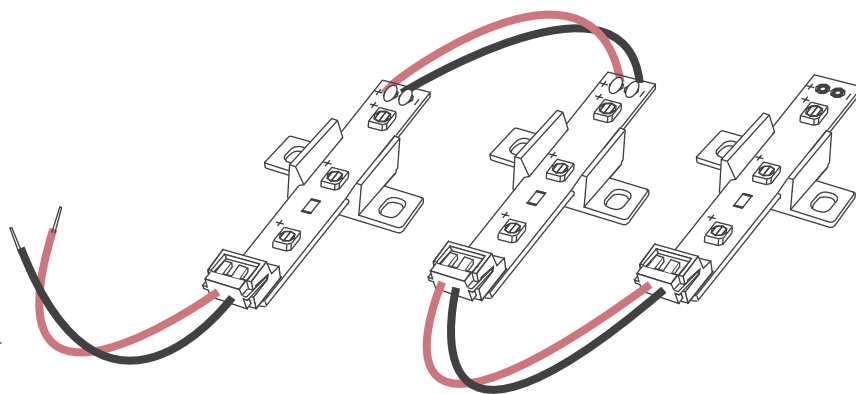


Series Applications

If one LED is damaged, the other LEDs will remain lit unless the trace is damaged.

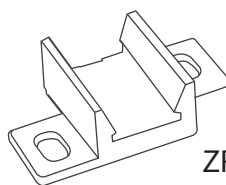
The LED bars can be strung together by using a joiner connector (ref. JKL P/N ZCH-101-J). JKL recommends that a limit of 22 bars be joined and powered from one end.

When joining bars, power should be supplied to the end of the bar with the lowest LED designation. If joined with a JKL supplied input cable (ZCH-200-I), the connector will fit the mating connector on the board and positive power can be supplied through the red wire. The return or ground will be through the black wire.



Mounting

JKL offers a mounting clip (ref. P/N ZRC-8). The mounting clip can be placed on any flat surface and utilizes a 4-40 or similar size screw to hold it in place. Other methods can be used, however care should be taken if adhesive is to be considered, as the boards will become hot after several hours of operation.



ZRC-8 Mounting Clip

Soldering

The soldering tip should be sized to match the solder pads. The tip temperature should be maintained at a temperature just above what is required to melt the solder being used (220 C for 63/37 solder and 260 C for SAC lead free solder). A small amount of solder flux can be added to the area to be soldered to aid in solder flow and cleaning of oxides.