

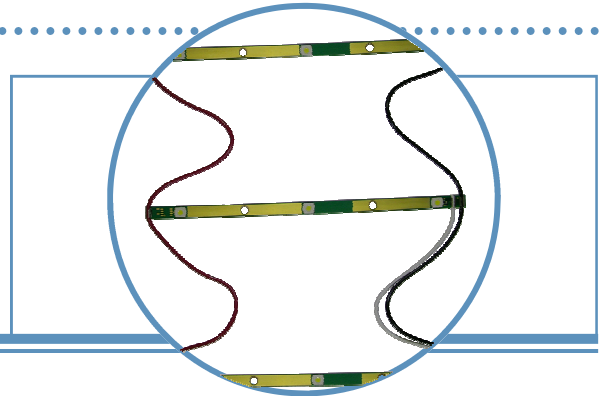
OPA775, OPA776

VLED Back Lighting Ladder



Back Lighting Ladder

- 3, 0.5 watt LEDs per strip
- Mono-color per strip (Daylight White)
- Component beam angle 120°
- RoHS Compliant



The **OPA775** and **OPA776** are designed for areas where light output and reliability are essential. The light beam angle of 120° is ideal for illuminating small and medium size areas while requiring minimal space. The devices are mounted on an FR-4 PC Board for ease of use with an easy to use IDC connector interface.

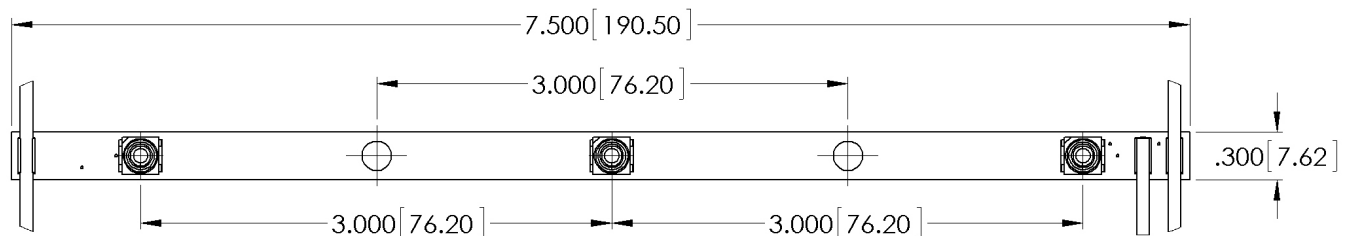
For custom colors and design contact your OPTEK representative.

Applications

- Architectural accent lighting
- Under-counter lighting
- Media illumination
- Lighting for large channel letters
- Backlighting for light boxes
- Point-of-sale displays

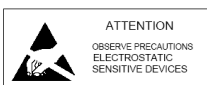
Optical and Electrical Characteristics - Daylight White ($I_F = 125 \text{ mA}$, $T_A = 25^\circ\text{C}$)

Part Number	Typical Forward Voltage (V)	Typical Luminous Flux (lm)	Beam Angle	Color	Typical CCT	Connector	Insertion Tool	Wire Size Min/Max
OPA775 (Note 3)	12	63	120°	Daylight White	5,750K	Zierick 1286T	Zierick 1286 Series	18 or 20 AWG
OPA776 (Note 4)	24	126						



Notes:

1. Maximum storage and operating temperature $-40^\circ \sim +100^\circ\text{C}$
2. ESD threshold (HBM) 2000V
3. 12VDC power supply not included. 0.2A minimum rating required, for each OPA775.
4. 24VDC power supply not included. 0.2A minimum rating required for each OPA776.



DO NOT LOOK DIRECTLY AT LED WITH UNSHIELDED EYES OR DAMAGE TO RETINA MAY OCCUR.

OPTEK reserves the right to make changes at any time in order to improve design and to supply the best product possible.

OPA775, OPA776

VLED Back Lighting Ladder

Suggested Design Options

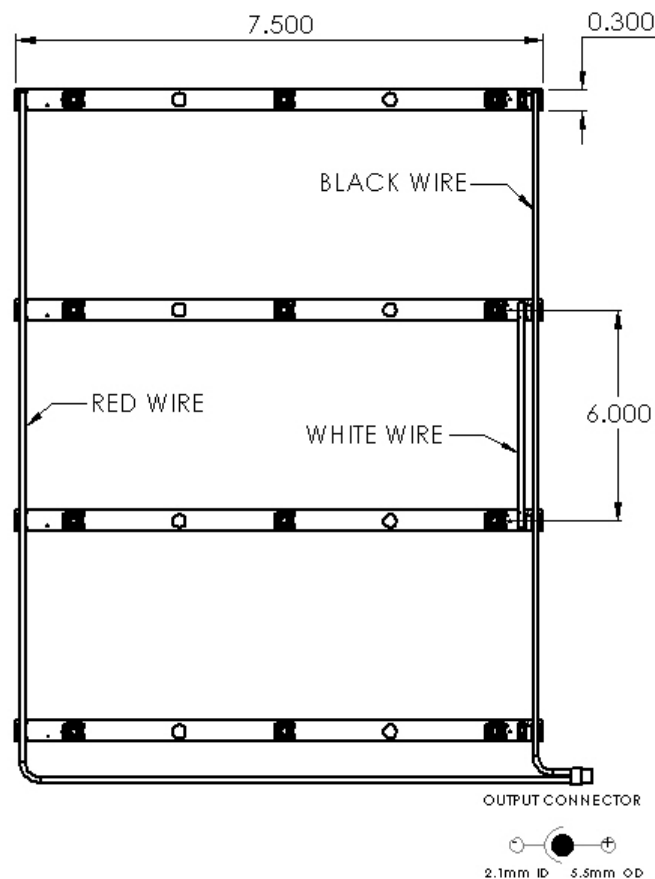
Optek Part Number	Number of LEDs per Strip	Number of Strips per Buss	LED Drive Current per Strip	AWG	Supply Voltage
OPA775	3	1 to 30	125mA	18	12V
OPA776	6	2 to 60*	125mA	18	24V

Notes:

* Multiples of 2 only

Mounting Instructions:

1. Install backplane (not included) behind panel to be illuminated.
2. Use masking tape (not included) to temporarily position the boards on backplane.
3. Reposition all boards until optimal illumination is achieved.
4. Attach PCBs to backplane with #6 screw and nut, nylon press fastener, or adhesive tape on back of boards.



OPTEK reserves the right to make changes at any time in order to improve design and to supply the best product possible.