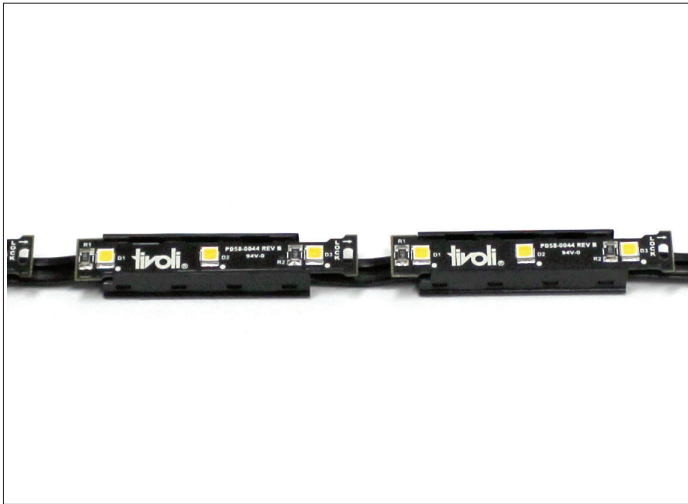


CAT:  FEET:

TYPE:  PROJECT:



Titanium LED PCBs were developed by Tivoli to be utilized as the primary light engine for many of our linear products. When utilized in a strand with 3/4" to 1 1/2" spacing it is a great tool for cove lighting as well. Often in tight cove applications service is an issue. Titanium™ Cove SO can be mounted with angled mounting clips for asymmetric applications or with the standard vertical clip. Additionally Titanium™ Cove SO can be installed in the Infinity or Titanium clear or frosted polycarbonate mounting channel with lens and end caps for dust free illumination. Titanium™ Cove SO has the option of 2 and 3 Nichia LEDs depending on your desired spacing, lumens and watts per foot requirements. Titanium™ Cove SO utilizes lower profile Titanium LED PCB modules that are attached to continuous through wires which minimizes voltage drop and feature nickel plated copper contacts for high contact reliability.

**Features**

- Titanium LED PCB in 2 and 3 LED variants
- High quality Nichia SMD LEDs
- Offered in 7 white color temps.
- Bendable on X and Y axis
- Angled and straight mounting options
- Two channel and lens options

**Mounting**

Use with Infinity Channel for vertical or horizontal applications. Use with Titanium Channel and lens for upward or downward illumination.

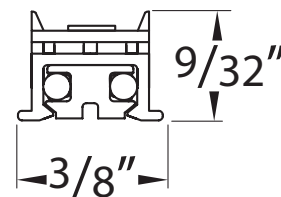
**Applications**

Ideal for mounting in ceiling cavities, recessed coves, walls, closets.

**Warranty**

5 years

**Profile Dimensions**



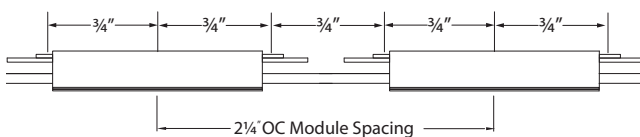
**Technical Information**



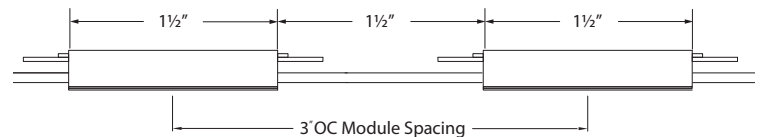
| LED Spacing       | 3/4"   | 1 1/2" |
|-------------------|--|--------|
| *Lumens/ft        | 161  | 107    |
| *Watts/ft         | 1.5  | 1.2    |
| *Lumens/watt      | 107  | 89     |
| CRI               | >80/TYP 84   |        |
| Kelvin Temp       | 1900K, 2200K, 2500K, 2700K, 3000K, 3500K, 4000K (+/-80K) 3SDCM |        |
| Rated Life        | 75,000 hrs.  |        |
| Max Run Length    | 40'  | 50'    |
| Order Increments  | 1'   |        |
| Cut Increments    | 2.25"  | 3"     |
| Operating Voltage | 12V DC   |        |
| Power Supply      | Class 2  |        |
| Dimmable          | Yes  |        |

\*3000K Sample

Series 01 - Triple LEDs with 3/4" O.C. Spacing



Series 02 - Double LEDs with 1 1/2" O.C. Spacing



## Recommended Power Supplies

### ADUL - NON DIMMING

| DESCRIPTION                           | CAT NO            | APPLICATION      | PRIMARY VOLTAGE        | SECONDARY VOLTAGE | CIRCUIT BREAKERS | MAX LOAD | CIRCUIT CAPACITY |
|---------------------------------------|-------------------|------------------|------------------------|-------------------|------------------|----------|------------------|
| ADUL Series<br>Class 2<br>Transformer | ADUL-80-1-5-12-D  | Indoor /<br>Damp | 100-277V AC<br>5ø60 HZ | 12V DC            | 1                | 60W      | 5A               |
|                                       | ADUL-150-2-5-12-D |                  |                        |                   | 2                | 2x60W    | 2x5A             |
|                                       | ADUL-240-3-5-12-D |                  |                        |                   | 3                | 3x60W    | 3x5A             |
|                                       | ADUL-320-4-5-12-D |                  |                        |                   | 4                | 4x60W    | 4x5A             |

### ADUL - 0-10V DIMMING

| DESCRIPTION                           | CAT NO              | APPLICATION      | PRIMARY VOLTAGE        | SECONDARY VOLTAGE | CIRCUIT BREAKERS | MAX LOAD | CIRCUIT CAPACITY |
|---------------------------------------|---------------------|------------------|------------------------|-------------------|------------------|----------|------------------|
| ADUL Series<br>Class 2<br>Transformer | ADUL-80-1-5-12-DOT  | Indoor /<br>Damp | 100-277V AC<br>5ø60 HZ | 12V DC            | 1                | 60W      | 5A               |
|                                       | ADUL-150-2-5-12-DOT |                  |                        |                   | 2                | 2x60W    | 2x5A             |
|                                       | ADUL-240-3-5-12-DOT |                  |                        |                   | 3                | 3x60W    | 3x5A             |
|                                       | ADUL-320-4-5-12-DOT |                  |                        |                   | 4                | 4x60W    | 4x5A             |

### ADUL - DMX SINGLE ADDRESS

| DESCRIPTION                           | CAT NO              | APPLICATION      | PRIMARY VOLTAGE        | SECONDARY VOLTAGE | CIRCUIT BREAKERS | MAX LOAD | CIRCUIT CAPACITY |
|---------------------------------------|---------------------|------------------|------------------------|-------------------|------------------|----------|------------------|
| ADUL Series<br>Class 2<br>Transformer | ADUL-80-1-5-12-DIN  | Indoor /<br>Damp | 100-277V AC<br>5ø60 Hz | 12V DC            | 1                | 60W      | 5A               |
|                                       | ADUL-150-2-5-12-DIN |                  |                        |                   | 2                | 2x60W    | 2x5A             |
|                                       | ADUL-240-3-5-12-DIN |                  |                        |                   | 3                | 3x60W    | 3x5A             |

### ADUL - DMX MULTI ADDRESS

| DESCRIPTION                           | CAT NO                | APPLICATION      | PRIMARY VOLTAGE        | SECONDARY VOLTAGE | CIRCUIT BREAKERS | MAX LOAD | CIRCUIT CAPACITY |
|---------------------------------------|-----------------------|------------------|------------------------|-------------------|------------------|----------|------------------|
| ADUL Series<br>Class 2<br>Transformer | ADUL-150-2-5-12-DIN-2 | Indoor /<br>Damp | 100-277V AC<br>5ø60 Hz | 12V DC            | 2                | 2x60W    | 2x5A             |
|                                       | ADUL-240-3-5-12-DIN-3 |                  |                        |                   | 3                | 3x60W    | 3x5A             |
|                                       | ADUL-320-4-5-12-DIN-4 |                  |                        |                   | 4                | 4x60W    | 4x5A             |

### INFINITY - MLV / ELV / 0-10V / PWM / TRIAC

| DESCRIPTION                               | CAT NO            | APPLICATION         | PRIMARY VOLTAGE | SECONDARY VOLTAGE | CIRCUIT BREAKERS | MAX LOAD | MIN LOAD | CIRCUIT CAPACITY |
|---|-------------------|---------------------|-----------------|-------------------|------------------|----------|----------|------------------|
| Infinity Series<br>Class 2<br>Transformer | INF-J-30-1-2.5-12 | Indoor /<br>Outdoor | 100 - 277V AC   | 12VDC             | 1                | 30W      | 3W       | 2.5A             |
|   | INF-J-60-1-5-12   |                     |                 |                   | 1                | 60W      | 6W       | 5A               |
|   | INF-J-180-3-5-12  |                     |                 |                   | 3                | 3x60W    | 3x6W     | 3x5A             |
|   | INF-J-300-5-5-12  |                     |                 |                   | 5                | 5x60W    | 5x6W     | 5x5A             |

## Recommended Dimmers

| DESCRIPTION | CAT NO        | APPLICATION | INPUT VOLTAGE | OUTPUT VOLTAGE |
|-------------|---------------|-------------|---------------|----------------|
| 24V Plug-In | PIT-24VDC-28W | Indoor      | 120V AC       | 24V DC         |

## INDOOR 12V

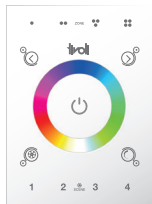
| DESCRIPTION | CAT NO        | APPLICATION | INPUT VOLTAGE | OUTPUT VOLTAGE |
|-------------|---------------|-------------|---------------|----------------|
| 12V Plug-In | PIT-12VDC-12W | Indoor      | 120V AC       | 12V DC         |

## PLUG-IN END PREP (Optional)

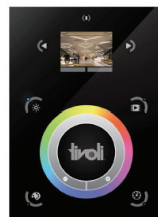
| CAT NO        | WIRING END PREPS  |
|---------------|---|
| PIT-F-LEAD-12 | Power lead with female barrel connector to bare wire 5.5mmx2.1mm 12inch cable 24AWG |

## DIMMING - DMX

| DESCRIPTION    | CAT NO       | APPLICATION | INPUT VOLTAGE | OUTPUT PROTOCOL | MAX UNIVERSE |
|----------------|--------------|-------------|---------------|-----------------|--------------|
| DMX Controller | TVOQ-1-WH    | Indoor      | 5V DC         | DMX 512         | 1            |
|                | TVOQ-2-BK    |             | 6V DC         |                 |              |
|                | TVOQ-2-WH    |             |               |                 |              |
|                | TVOQ-10-BK-7 |             | 6-7V DC       |                 |              |
|                | TVOQ-10-WH-7 |             |               |                 | 2            |



**TVOQ-1-WH**  
WH (White only)

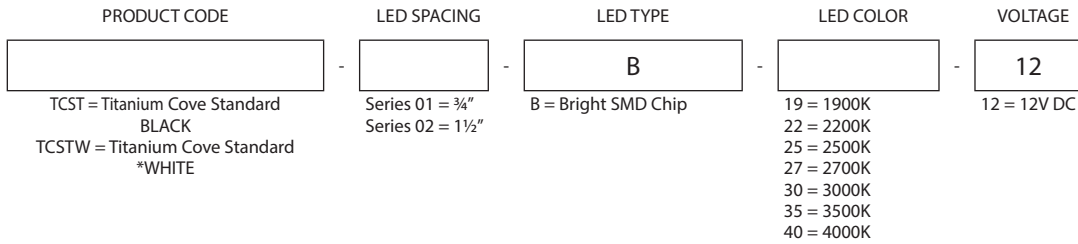


**TVOQ-10-XX-7**  
XX = BK (Black), WH (White)



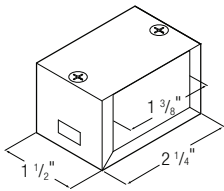
**TVOQ-2-XX**  
XX = BK (Black), WH (White)

## Ordering Information

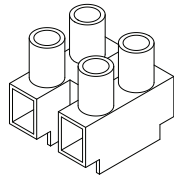


\*Consult factory for lead time.

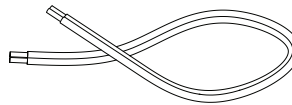
## Wiring Accessories



**JBOX**  
 Junction Box  
 Use to cover terminal block connections. One end of the terminal block screws directly into the Covelum™ LED lead wires, the other end accepts AWG # 10, 12, 14 wire from power supply. 1 each terminal block included.

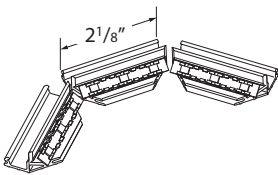


**TERM-BLK**  
 Terminal Block available separately.

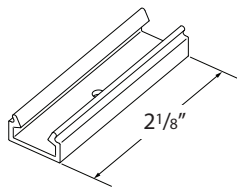


**TTCL-EP**  
 BLACK- Straight Power Feed Lead:  
 Factory installed 24', 18 AWG Power Lead.  
**TTCLW-EP**  
 WHITE - Straight Power Feed Lead:  
 Factory installed 24', 18 AWG Power Lead.

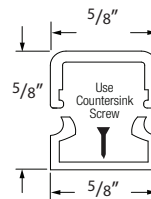
## Mounting Accessories



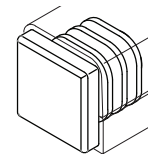
**TTCL-MC-ANGLE**  
 Angled Mounting Clamp  
 For radius installations with angled illumination. One clamp per module required. BLACK



**TTCL-MC-VERT**  
 Mounting Clamp for radius installations

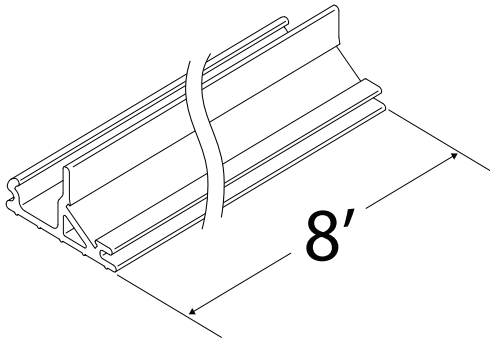


**INF-C-CHAN-8**  
 Infinity Mounting Channel with lens, 8' length - Clear  
**INF-F-CHAN-8**  
 Infinity Mounting Channel with lens 8' length - Frosted

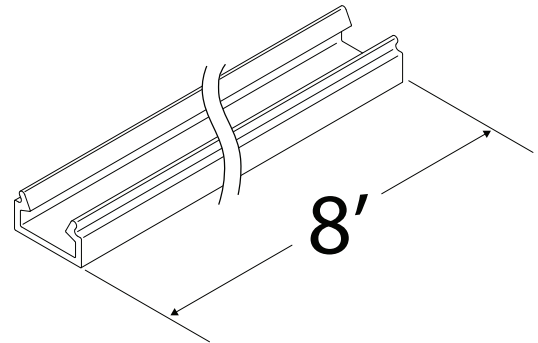


**INF-EC**  
 Infinity channel end-cap, Black

## Mounting Accessories

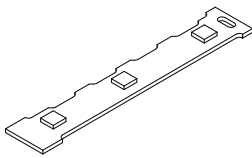


**TTCL-CHAN-ANGLE-8**  
Angled Mounting Channel - 8' length

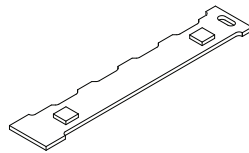


**TTCL-CHAN-VERT-8**  
Mounting Channel for radius installations - 8' length

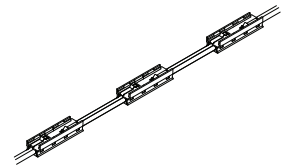
## Replacement Parts



- |  |   |
|--|---|
| <b>01 SERIES SMD LED PCB<br/>BLACK</b> | <b>01 SERIES SMD LED PCB<br/>*WHITE</b> |
| <b>TTCL-T120-U-22</b><br>2200K         | <b>TTCL-T120-U-22-W</b><br>2200K        |
| <b>TTCL-T120-U-25</b><br>2500K         | <b>TTCL-T120-U-25-W</b><br>2500K        |
| <b>TTCL-T120-U-27</b><br>2700K         | <b>TTCL-T120-U-27-W</b><br>2700K        |
| <b>TTCL-T120-U-30</b><br>3000K         | <b>TTCL-T120-U-30-W</b><br>3000K        |
| <b>TTCL-T120-U-35</b><br>3500K         | <b>TTCL-T120-U-35-W</b><br>3500K        |
| <b>TTCL-T120-U-40</b><br>4000K         | <b>TTCL-T120-U-40-W</b><br>4000K        |
- \*Consult factory for lead time.



- |  |   |
|--|---|
| <b>02 SERIES SMD LED PCB<br/>BLACK</b> | <b>02 SERIES SMD LED PCB<br/>*WHITE</b> |
| <b>TTCL-D120-U-22</b><br>2200K         | <b>TTCL-D120-U-22-W</b><br>2200K        |
| <b>TTCL-D120-U-25</b><br>2500K         | <b>TTCL-D120-U-25-W</b><br>2500K        |
| <b>TTCL-D120-U-27</b><br>2700K         | <b>TTCL-D120-U-27-W</b><br>2700K        |
| <b>TTCL-D120-U-30</b><br>3000K         | <b>TTCL-D120-U-30-W</b><br>3000K        |
| <b>TTCL-D120-U-35</b><br>3500K         | <b>TTCL-D120-U-35-W</b><br>3500K        |
| <b>TTCL-D120-U-40</b><br>4000K         | <b>TTCL-D120-U-40-W</b><br>4000K        |



- |  |  |
|--|--|
| <b>**REPLACEMENT STRAND<br/>BLACK</b>              | <b>**REPLACEMENT STRAND<br/>*WHITE</b>               |
| <b>TTCL-01-STRAND</b><br>¾" O.C. - (25 foot roll)  | <b>TTCL-01-STRAND-W</b><br>¾" O.C. - (25 foot roll)  |
| <b>TTCL-02-STRAND</b><br>1½" O.C. - (35 foot roll) | <b>TTCL-02-STRAND-W</b><br>1½" O.C. - (35 foot roll) |

\*\*LED PCB Not Included