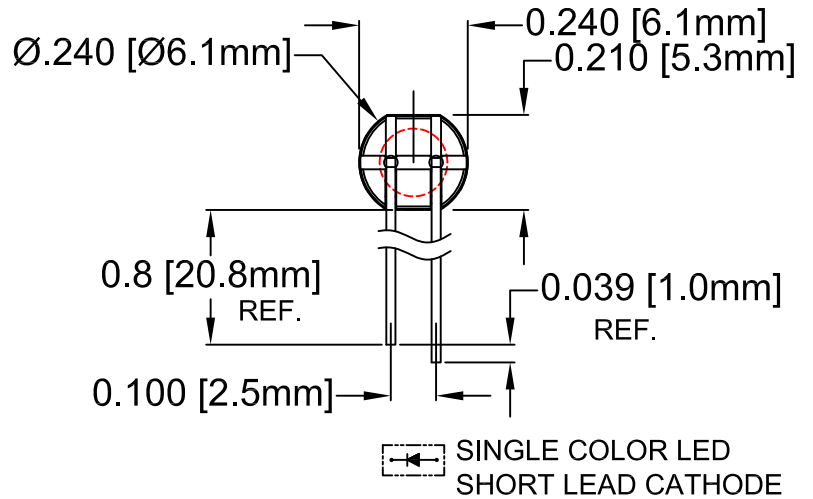
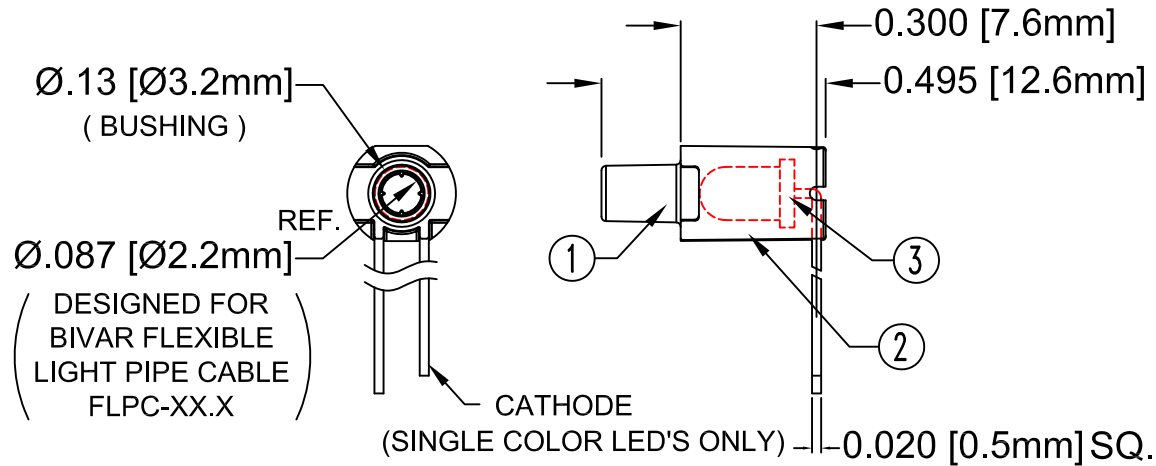
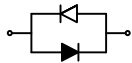


| ITEM | Q'TY | PART NUMBER | PART DESCRIPTION                       |
|------|------|-------------|----------------------------------------|
| 1    | 1    | PML3-1      | FLEXIBLE LIGHT-PIPE HOLDER, BUSHING    |
| 2    | 1    | PML3-2      | FLEXIBLE LIGHT-PIPE HOLDER, BODY       |
| 3    | 1    | 3XX-XX-F    | T-1 (3mm) LED FLANGED, SEE PAGE 2 & 3. |

| REV. | DESCRIPTION                                                                                                                | DATE     | APPROVED |
|------|----------------------------------------------------------------------------------------------------------------------------|----------|----------|
| B    | ECO#381, ADDED SUPER AMBER                                                                                                 | 04/21/03 | M. C.    |
| C    | ADDED FLPR-BC-A/G                                                                                                          | 05/15/03 | M. C.    |
| D    | REPLACE PML3, LED HOLDER, WITH PML3-12                                                                                     | 10/21/03 | M. C.    |
| E    | Replace PML3, LED Holder, with PML3-12, corrected bicolor LED from 3BC-XX Series to 3BCC-XX series. Added 3SBCC-XX Series. | 05/11/04 | M. C.    |
| F    | Lead Length Callout (Ref. Dim.) and Spec Update                                                                            | 07/02/10 | T. Y.    |
| G    | Replaced 3UWC-0.6K-F with 3UWC1.035C-F                                                                                     | 04/08/13 | T. Y.    |

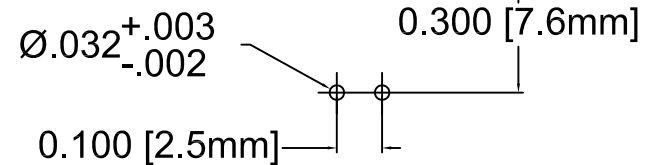


#### BI-COLOR LED'S



| SHORT LEAD CATHODE | LED PART NO. | LONG LEAD CATHODE |
|--------------------|--------------|-------------------|
| RED                | 3xBCC-F      | GREEN             |
| YELLOW             | 3xBCC-Y/G-F  | GREEN             |
| RED                | 3xBCC-R/Y-F  | YELLOW            |
| AMBER              | 3xBCC-A/G-F  | GREEN             |

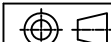
#### SHOULDER OF HOLDER



#### RECOMMENDED FOOTPRINT

## ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

REVERSE VOLTAGE \_\_\_\_\_ 5V  
 REVERSE CURRENT ( VR=5V) \_\_\_\_\_ 100µA  
 OPERATING TEMPERATURE RANGE \_\_\_\_\_ -25°C ~ 85°C  
 STORAGE TEMPERATURE \_\_\_\_\_ -30°C ~ 100°C  
 LEAD SOLDERING TEMPERATURE (1/16" FROM BODY) \_\_\_\_\_ 260°C for 5 Seconds

|                                                                                                  |                          |                                                                                                                                                                                               |                       |
|--------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| STANDARD TOLERANCE<br>( UNLESS OTHERWISE SPECIFIED )                                             |                          | <div></div> <div>4 THOMAS, IRVINE, CA. 92618</div> <div>TEL: (949) 951-8808    FAX: (949) 951-3974</div> |                       |
| <u>DECIMALS</u>                                                                                  | <u>ANGULAR</u>           |                                                                                                                                                                                               |                       |
| .X     ± .1                                                                                      | X°   ± 1°                |                                                                                                                                                                                               |                       |
| .XX   ± .02                                                                                      |                          |                                                                                                                                                                                               |                       |
| .XXX ± .010                                                                                      |                          |                                                                                                                                                                                               |                       |
| <div></div> |                          | TITLE: FLEXIBLE LIGHT PIPE<br>ADAPTER, RIGHT ANGLE, W/LED                                                                                                                                     |                       |
| DESIGNED:<br><b>David Green</b>                                                                  | DATE:<br><b>04/04/03</b> | PART NO:<br><b>FLPR-XX</b>                                                                                                                                                                    | REVISION:<br><b>G</b> |
| CHECKED:<br><b>M. Chen</b>                                                                       | DATE:<br><b>04/04/03</b> | CAGE CODE : <b>32559</b>                                                                                                                                                                      | SHEET # <b>1 OF 3</b> |
| CAD GENERATED DOCUMENT, DO NOT MEASURE DRAWING.                                                  |                          |                                                                                                                                                                                               |                       |

| REV. | DESCRIPTION  | DATE | APPROVED |
|------|--------------|------|----------|
|      | SEE SHEET#1. |      |          |
|      |              |      |          |

| LED Assy.<br>No. | Emitted Color | Peak Wave<br>Length<br>$\lambda_p$ (nm) | Lens<br>Appearance | Absolute Max. Ratings |            |                 | Electro-Optical Data @ 20mA |      |             | Viewing<br>Angle<br>$2\theta \frac{1}{2}$<br>(Deg) | LED P/N |
|------------------|---------------|-----------------------------------------|--------------------|-----------------------|------------|-----------------|-----------------------------|------|-------------|----------------------------------------------------|---------|
|                  |               |                                         |                    | Pd<br>(mW)            | If<br>(mA) | Peak If<br>(mA) | Vf<br>(V)                   |      | Iv<br>(mcd) |                                                    |         |
|                  |               |                                         |                    |                       |            |                 | Typ.                        | Max. | Typ.        |                                                    |         |
| FLPR-SG          | SUPER GREEN   | 568                                     | WATER CLEAR        | 80                    | 30         | 150             | 2.1                         | 2.8  | 50          | 20                                                 | 3SGC-F  |
| FLPR-SY          | SUPER YELLOW  | 590                                     | WATER CLEAR        | 85                    | 30         | 150             | 2.0                         | 2.8  | 50          | 20                                                 | 3SYC-F  |
| FLPR-SA          | SUPER AMBER   | 605                                     | WATER CLEAR        | 100                   | 30         | 150             | 1.8                         | 2.4  | 300         | 20                                                 | 3SAC-F  |
| FLPR-SR          | SUPER RED     | 645                                     | WATER CLEAR        | 70                    | 30         | 150             | 1.7                         | 2.4  | 60          | 20                                                 | 3SRC-F  |

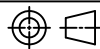
| LED Assy.<br>No. | Emitted Color | Peak Wave<br>Length<br>$\lambda_p$ (nm) | Lens<br>Appearance | Absolute Max. Ratings |            |                 | Electro-Optical Data @ 20mA |      |             | Viewing<br>Angle<br>$2\theta \frac{1}{2}$<br>(Deg) | LED P/N      |
|------------------|---------------|-----------------------------------------|--------------------|-----------------------|------------|-----------------|-----------------------------|------|-------------|----------------------------------------------------|--------------|
|                  |               |                                         |                    | Pd<br>(mW)            | If<br>(mA) | Peak If<br>(mA) | Vf<br>(V)                   |      | Iv<br>(mcd) |                                                    |              |
|                  |               |                                         |                    |                       |            |                 | Typ.                        | Max. | Typ.        |                                                    |              |
| FLPR-UBW.6K      | BLUE          | 470                                     | WATER CLEAR        | 150                   | 25         | 70              | 4.0                         | 4.5  | 400         | 20                                                 | 3UBWC-0.6K-F |
| FLPR-UT          | TURQUOISE     | 500                                     | WATER CLEAR        | 70                    | 30         | 150             | 3.5                         | 4.0  | 800         | 20                                                 | 3UTC-F       |
| FLPR-UG          | GREEN         | 570                                     | WATER CLEAR        | 100                   | 30         | 150             | 2.1                         | 2.4  | 200         | 20                                                 | 3UGC-F       |
| FLPR-SUG         | GREEN         | 570                                     | WATER CLEAR        | 100                   | 30         | 150             | 2.1                         | 2.4  | 300         | 20                                                 | 3SUGC-F      |
| FLPR-UY          | YELLOW        | 590                                     | WATER CLEAR        | 85                    | 30         | 150             | 2.0                         | 2.4  | 300         | 20                                                 | 3UYC-F       |
| FLPR-SUY         | YELLOW        | 590                                     | WATER CLEAR        | 85                    | 30         | 150             | 2.0                         | 2.4  | 400         | 20                                                 | 3SUYC-F      |
| FLPR-UUY         | YELLOW        | 590                                     | WATER CLEAR        | 85                    | 30         | 150             | 2.0                         | 2.4  | 600         | 20                                                 | 3UUYC-F      |
| FLPR-UO          | ORANGE        | 625                                     | WATER CLEAR        | 100                   | 30         | 150             | 1.8                         | 2.4  | 300         | 20                                                 | 3UOC-F       |
| FLPR-SUO         | ORANGE        | 625                                     | WATER CLEAR        | 100                   | 30         | 150             | 1.8                         | 2.4  | 400         | 20                                                 | 3SUOC-F      |
| FLPR-UR          | RED           | 645                                     | WATER CLEAR        | 60                    | 30         | 150             | 1.7                         | 2.4  | 200         | 20                                                 | 3URC-F       |
| FLPR-SUR         | RED           | 640                                     | WATER CLEAR        | 70                    | 30         | 150             | 1.8                         | 2.4  | 200         | 20                                                 | 3SURC-F      |
| FLPR-UW.6K       | WHITE         | -                                       | WATER CLEAR        | 120                   | 30         | 100             | 3.4                         | 3.8  | 1000        | 35                                                 | 3UWC1.035C-F |

|                                                                                               |                          |                                                                                                                                                                      |                       |
|-----------------------------------------------------------------------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| STANDARD TOLERANCE<br>( UNLESS OTHERWISE SPECIFIED )<br><u>±10% ALL VALUES</u> <u>ANGULAR</u> |                          | <br>4 THOMAS, IRVINE, CA. 92618<br>TEL: (949) 951-8808      FAX: (949) 951-3974 |                       |
|          |                          | TITLE: FLEXIBLE LIGHT PIPE<br>ADAPTER, RIGHT ANGLE, W/LED                                                                                                            |                       |
| DESIGNED:<br><b>David Green</b>                                                               | DATE:<br><b>04/04/03</b> | PART NO: FLPR-XX                                                                                                                                                     | REVISION:<br><b>G</b> |
| CHECKED:<br><b>M. Chen</b>                                                                    | DATE:<br><b>04/04/03</b> | CAGE CODE : 32559                                                                                                                                                    | SHEET # 2 OF 3        |
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| REV. | DESCRIPTION  | DATE | APPROVED |
|------|--------------|------|----------|
|      | SEE SHEET#1. |      |          |
|      |              |      |          |

| LED Assy. No. | Emitted Color | Peak Wave Length<br>$\lambda_p$ (nm) | Lens Appearance | Absolute Max. Ratings |            |                 | Electro-Optical Data @ 20mA |      |             | Viewing Angle<br>$2\theta \frac{1}{2}$<br>(Deg) | LED P/N    |
|---------------|---------------|--------------------------------------|-----------------|-----------------------|------------|-----------------|-----------------------------|------|-------------|-------------------------------------------------|------------|
|               |               |                                      |                 | Pd<br>(mW)            | If<br>(mA) | Peak If<br>(mA) | Vf<br>(V)                   |      | Iv<br>(mcd) |                                                 |            |
|               |               |                                      |                 |                       |            |                 | Typ.                        | Max. | Typ.        |                                                 |            |
| FLPR-BC       | HE RED        | 625                                  | WATER CLEAR     | 80                    | 30         | 150             | 2.0                         | 2.8  | 8           | 40                                              | 3BCC-F     |
|               | GREEN         | 568                                  |                 | 80                    | 30         | 150             | 2.1                         | 2.8  | 8           |                                                 |            |
| FLPR-BC-Y/G   | YELLOW        | 590                                  | WATER CLEAR     | 80                    | 30         | 150             | 2.0                         | 2.8  | 6           | 40                                              | 3BCC-Y/G-F |
|               | GREEN         | 568                                  |                 | 80                    | 30         | 150             | 2.1                         | 2.8  | 8           |                                                 |            |
| FLPR-BC-R/Y   | HE RED        | 625                                  | WATER CLEAR     | 80                    | 30         | 150             | 2.0                         | 2.8  | 8           | 40                                              | 3BCC-R/Y-F |
|               | YELLOW        | 590                                  |                 | 80                    | 30         | 150             | 2.0                         | 2.8  | 6           |                                                 |            |
| FLPR-BC-A/G   | AMBER         | 605                                  | WATER CLEAR     | 80                    | 30         | 150             | 2.0                         | 2.8  | 6           | 40                                              | 3BCC-A/G-F |
|               | GREEN         | 568                                  |                 | 80                    | 30         | 150             | 2.1                         | 2.8  | 8           |                                                 |            |

| LED Assy. No. | Emitted Color | Peak Wave Length<br>$\lambda_p$ (nm) | Lens Appearance | Absolute Max. Ratings |            |                 | Electro-Optical Data @ 20mA |      |             | Viewing Angle<br>$2\theta \frac{1}{2}$<br>(Deg) | LED P/N     |
|---------------|---------------|--------------------------------------|-----------------|-----------------------|------------|-----------------|-----------------------------|------|-------------|-------------------------------------------------|-------------|
|               |               |                                      |                 | Pd<br>(mW)            | If<br>(mA) | Peak If<br>(mA) | Vf<br>(V)                   |      | Iv<br>(mcd) |                                                 |             |
|               |               |                                      |                 |                       |            |                 | Typ.                        | Max. | Typ.        |                                                 |             |
| FLPR-SBC      | SUPER RED     | 645                                  | WATER CLEAR     | 70                    | 30         | 150             | 1.7                         | 2.4  | 100         | 20                                              | 3SBCC-F     |
|               | HE GREEN      | 568                                  |                 | 80                    | 30         | 150             | 2.1                         | 2.8  | 60          |                                                 |             |
| FLPR-SBC-Y/G  | SUPER YELLOW  | 585                                  | WATER CLEAR     | 85                    | 20         | 160             | 2.1                         | 2.4  | 15          | 40                                              | 3SBCC-Y/G-F |
|               | HE GREEN      | 565                                  |                 | 80                    | 20         | 160             | 2.1                         | 2.8  | 5           |                                                 |             |
| FLPR-SBC-R/Y  | SUPER RED     | 645                                  | WATER CLEAR     | 70                    | 30         | 150             | 1.7                         | 2.4  | 100         | 20                                              | 3SBCC-R/Y-F |
|               | SUPER YELLOW  | 590                                  |                 | 85                    | 30         | 150             | 2.0                         | 2.4  | 300         |                                                 |             |

|                                                                                            |                   |                                                                                                                                                                    |                                                           |
|--------------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| STANDARD TOLERANCE<br>( UNLESS OTHERWISE SPECIFIED )<br>$\pm 10\%$ ALL VALUES      ANGULAR |                   | <br>4 THOMAS, IRVINE, CA. 92618<br>TEL: (949) 951-8808    FAX: (949) 951-3974 |                                                           |
|                                                                                            |                   |                                                                               | TITLE: FLEXIBLE LIGHT PIPE<br>ADAPTER, RIGHT ANGLE, W/LED |
| DESIGNED:<br>David Green                                                                   | DATE:<br>04/04/03 | PART NO:<br>FLPR-XX                                                                                                                                                | REVISION:<br>G                                            |
| CHECKED:<br>M. Chen                                                                        | DATE:<br>04/04/03 | CAGE CODE : 32559                                                                                                                                                  | SHEET # 3 OF 3                                            |
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