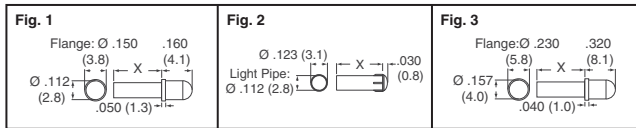




## Light Pipes



### FEATURES:

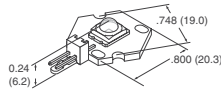
**PLP1 and PLP2 Series:** • Protects circuits from ESD • Use with BivarOpto SM or Through-hole Series LEDs • PLP1 Series panel light pipes press fits into panel  
**PLP5 Series:** • Dual-lens geometry • Improved lighting intensity • Press fits into panel

| Fig.               | Dimension X Inch (mm) | Digi-Key Part No. | Price Each | 10  | 100 | Bivar Opto Part No. |
|--------------------|-----------------------|-------------------|------------|-----|-----|---------------------|
| <b>PLP1 Series</b> |                       |                   |            |     |     |                     |
| 1                  | .125 (3.2)            | 492-1148-ND       | .73        | .41 | .30 | PLP1-125            |
|                    | .250 (6.4)            | 492-1149-ND       | .73        | .41 | .30 | PLP1-250            |
|                    | .500 (12.7)           | 492-1150-ND       | .73        | .41 | .30 | PLP1-500            |
|                    | .750 (19.0)           | 492-1151-ND       | .77        | .43 | .31 | PLP1-750            |
| <b>PLP2 Series</b> |                       |                   |            |     |     |                     |
| 2                  | .125 (3.2)            | 492-1152-ND       | .67        | .37 | .27 | PLP2-125            |
|                    | .250 (6.4)            | 492-1153-ND       | .73        | .41 | .30 | PLP2-250            |
|                    | .500 (12.7)           | 492-1154-ND       | .73        | .41 | .30 | PLP2-500            |
|                    | .750 (19.0)           | 492-1155-ND       | .73        | .41 | .30 | PLP2-750            |
| <b>PLP5 Series</b> |                       |                   |            |     |     |                     |
| 3                  | .125 (3.2)            | 492-1141-ND       | .73        | .41 | .30 | PLP5-125            |
|                    | .250 (6.4)            | 492-1142-ND       | .73        | .41 | .30 | PLP5-250            |
|                    | .500 (12.7)           | 492-1143-ND       | .73        | .41 | .30 | PLP5-500            |
|                    | .750 (19.0)           | 492-1144-ND       | .73        | .41 | .30 | PLP5-750            |
|                    | 1.00 (25.4)           | 492-1145-ND       | .73        | .41 | .30 | PLP5-1000           |
|                    | 1.25 (31.8)           | 492-1146-ND       | .73        | .41 | .30 | PLP5-1500           |

## LED Modules

### FEATURES:

- Lens Appearance: Water Clear
- Viewing Angle: 100°



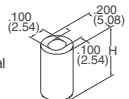
| Dominant Wave Length λd (nm) | Color | Electro-Optical Data @ 350mA |                    |      | Digi-Key Part No. | Price Each |       |       | Bivar Opto Part No. |
|------------------------------|-------|------------------------------|--------------------|------|-------------------|------------|-------|-------|---------------------|
|                              |       | VI (V) Typ.                  | Lum Flux (lm) Min. | Max. |                   | 1          | 10    | 100   |                     |
| 465                          | Blue  | 3.3                          | 6.3                | 23.5 | 492-1131-ND       | 14.30      | 12.03 | 10.99 | LK-470-001          |
| 465                          | Blue  | 3.3                          | 6.3                | 23.5 | 492-1136-ND†      | 14.30      | 12.03 | 10.99 | LK-470-001-FC       |
| 520                          | Green | 3.3                          | 30.6               | 67.2 | 492-1132-ND       | 14.30      | 12.03 | 10.99 | LK-530-001          |
| 520                          | Green | 3.3                          | 30.6               | 67.2 | 492-1137-ND†      | 14.30      | 12.03 | 10.99 | LK-530-001-FC       |
| 585                          | Amber | 2.3                          | 30.6               | 67.2 | 492-1133-ND       | 9.90       | 8.33  | 7.61  | LK-590-001          |
| 585                          | Amber | 2.3                          | 30.6               | 67.2 | 492-1138-ND†      | 9.90       | 8.33  | 7.61  | LK-590-001-FC       |
| 620                          | Red   | 2.3                          | 18.1               | 51.7 | 492-1134-ND       | 9.90       | 8.33  | 7.61  | LK-630-001          |
| 620                          | Red   | 2.3                          | 18.1               | 51.7 | 492-1139-ND†      | 9.90       | 8.33  | 7.61  | LK-630-001-FC       |
| 4500K                        | White | 3.3                          | 23.5               | 67.2 | 492-1135-ND       | 14.30      | 12.03 | 10.99 | LK-WHT-001          |
| 4500K                        | White | 3.3                          | 23.5               | 67.2 | 492-1140-ND†      | 14.30      | 12.03 | 10.99 | LK-WHT-001-FC       |

† Field Connect

## Molded and Self-Retaining LED Mounts

**Features:** • One universal style for both T-1 (3mm) and T-1 3/4 (5mm) LEDs • Internal tapered divider prevents leads from shorting

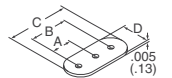
**Material Specifications:** • UL Rated 94V-0, Color: Black, 33% GF Polyphalamide (PPA)



| Dimension H Inch (mm) | Digi-Key Part No. | 10   | Pricing 100 | 500   | Bivar Opto Part No. |
|-----------------------|-------------------|------|-------------|-------|---------------------|
| .15 (3.8)             | 492-1029-ND       | 1.65 | 11.03       | 40.79 | LTM-150             |
| .2 (5.1)              | 492-1030-ND       | 1.65 | 11.03       | 40.79 | LTM-200             |
| .25 (6.4)             | 492-1031-ND       | 2.13 | 14.20       | 52.55 | LTM-250             |
| .3 (7.6)              | 492-1032-ND       | 1.71 | 11.37       | 42.06 | LTM-300             |
| .35 (8.9)             | 492-1033-ND       | 1.71 | 11.37       | 42.06 | LTM-350             |
| .4 (10.2)             | 492-1034-ND       | 1.81 | 12.08       | 44.68 | LTM-400             |
| .45 (11.4)            | 492-1035-ND       | 1.81 | 12.08       | 44.68 | LTM-450             |
| .5 (12.7)             | 492-1036-ND       | 1.96 | 13.07       | 48.37 | LTM-500             |



## Crystal Insulators



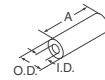
**Material Specifications:** Dupont, Mylar EL-21 with UL Rated 94V-2

| Dimensions — Inch (mm) |            |             |            | Use With                 | Digi-Key Part No. | Pricing |      | Bivar Part No.  |
|------------------------|------------|-------------|------------|--------------------------|-------------------|---------|------|-----------------|
| A                      | B          | C           | D          |                          |                   | 10      | 100  |                 |
| —                      | .148 (3.8) | .325 (8.3)  | .145 (3.7) | HC-80/U                  | 492-1037-ND       | .82     | 4.50 | CI-148-028 SR   |
| .074 (1.9)             | .148 (3.8) | .325 (8.3)  | .145 (3.7) | HC-80/U                  | 492-1038-ND       | .82     | 4.50 | CI-148-028-3 SR |
| —                      | .192 (4.9) | .465 (11.8) | .219 (5.6) | HC-18/U, HC43/U, HC-49/U | 492-1039-ND       | .79     | 4.33 | CI-192-028 SR   |
| .096 (2.4)             | .192 (4.9) | .465 (11.8) | .219 (5.6) | HC-18/U, HC43/U, HC-49/U | 492-1040-ND       | .82     | 4.50 | CI-192-028-3 SR |

## Nylon Spacers

### Material Specifications:

Natural Nylon, per ASTM D 4066 PA 225, UL Rated 94V-2



| Screw Size | Dimensions — Inch (mm) |            |            | Digi-Key Part No. | Pricing |      | Bivar Part No. |
|------------|------------------------|------------|------------|-------------------|---------|------|----------------|
|            | Dim. A                 | ID         | OD         |                   | 10      | 100  |                |
| #2         | 1/16 (1.6)             | .091 (2.3) | .187 (4.7) | 492-1041-ND       | .66     | 3.65 | 9913-062       |
|            | 1/8 (3.2)              | .091 (2.3) | .187 (4.7) | 492-1042-ND       | .66     | 3.65 | 9913-125       |
|            | 3/16 (4.8)             | .091 (2.3) | .187 (4.7) | 492-1043-ND       | .66     | 3.65 | 9913-187       |
|            | 1/4 (6.4)              | .091 (2.3) | .187 (4.7) | 492-1044-ND       | .66     | 3.65 | 9913-250       |
|            | 5/16 (7.9)             | .091 (2.3) | .187 (4.7) | 492-1045-ND       | .66     | 3.65 | 9913-312       |
|            | 3/8 (9.5)              | .091 (2.3) | .187 (4.7) | 492-1046-ND       | .72     | 3.94 | 9913-375       |
|            | 7/16 (11.1)            | .091 (2.3) | .187 (4.7) | 492-1047-ND       | .72     | 3.94 | 9913-437       |
|            | 1/2 (12.7)             | .091 (2.3) | .187 (4.7) | 492-1048-ND       | .72     | 3.94 | 9913-500       |
|            | 9/16 (14.3)            | .091 (2.3) | .187 (4.7) | 492-1049-ND       | .72     | 3.94 | 9913-562       |
|            | 5/8 (15.9)             | .091 (2.3) | .187 (4.7) | 492-1050-ND       | .77     | 4.25 | 9913-625       |
|            | 3/4 (19.1)             | .091 (2.3) | .187 (4.7) | 492-1051-ND       | .77     | 4.25 | 9913-750       |
|            | 13/16 (20.6)           | .091 (2.3) | .187 (4.7) | 492-1052-ND       | .82     | 4.50 | 9913-812       |
|            | 7/8 (22.2)             | .091 (2.3) | .187 (4.7) | 492-1053-ND       | .82     | 4.50 | 9913-875       |
|            | 15/16 (23.8)           | .091 (2.3) | .187 (4.7) | 492-1054-ND       | .82     | 4.50 | 9913-937       |
|            | 1 (25.4)               | .091 (2.3) | .187 (4.7) | 492-1055-ND       | .82     | 4.50 | 9913-1000      |
| #2         | 1/16 (1.6)             | .091 (2.3) | 250 (6.4)  | 492-1056-ND       | .66     | 3.65 | 9910-062       |
|            | 1/8 (3.2)              | .091 (2.3) | 250 (6.4)  | 492-1057-ND       | .66     | 3.65 | 9910-125       |
|            | 3/16 (4.8)             | .091 (2.3) | 250 (6.4)  | 492-1058-ND       | .66     | 3.65 | 9910-187       |
|            | 1/4 (6.4)              | .091 (2.3) | 250 (6.4)  | 492-1059-ND       | .66     | 3.65 | 9910-250       |
|            | 5/16 (7.9)             | .091 (2.3) | 250 (6.4)  | 492-1060-ND       | .66     | 3.65 | 9910-312       |
|            | 3/8 (9.5)              | .091 (2.3) | 250 (6.4)  | 492-1061-ND       | .72     | 3.94 | 9910-375       |
|            | 7/16 (11.1)            | .091 (2.3) | 250 (6.4)  | 492-1062-ND       | .72     | 3.94 | 9910-437       |
|            | 1/2 (12.7)             | .091 (2.3) | 250 (6.4)  | 492-1063-ND       | .72     | 3.94 | 9910-500       |
|            | 9/16 (14.3)            | .091 (2.3) | 250 (6.4)  | 492-1064-ND       | .72     | 3.94 | 9910-562       |
|            | 5/8 (15.9)             | .091 (2.3) | 250 (6.4)  | 492-1065-ND       | .77     | 4.25 | 9910-625       |
|            | 3/4 (19.1)             | .091 (2.3) | 250 (6.4)  | 492-1066-ND       | .77     | 4.25 | 9910-750       |
|            | 13/16 (20.6)           | .091 (2.3) | 250 (6.4)  | 492-1067-ND       | .82     | 4.50 | 9910-812       |
|            | 7/8 (22.2)             | .091 (2.3) | 250 (6.4)  | 492-1068-ND       | .82     | 4.50 | 9910-875       |
|            | 15/16 (23.8)           | .091 (2.3) | 250 (6.4)  | 492-1069-ND       | .82     | 4.50 | 9910-937       |
|            | 1 (25.4)               | .091 (2.3) | 250 (6.4)  | 492-1070-ND       | .82     | 4.50 | 9910-1000      |
| #4         | 1/16 (1.6)             | .125 (3.2) | .187 (4.7) | 492-1071-ND       | .66     | 3.65 | 9908-062       |
|            | 1/8 (3.2)              | .125 (3.2) | .187 (4.7) | 492-1072-ND       | .66     | 3.65 | 9908-125       |
|            | 3/16 (4.8)             | .125 (3.2) | .187 (4.7) | 492-1073-ND       | .66     | 3.65 | 9908-187       |
|            | 1/4 (6.4)              | .125 (3.2) | .187 (4.7) | 492-1074-ND       | .66     | 3.65 | 9908-250       |
|            | 5/16 (7.9)             | .125 (3.2) | .187 (4.7) | 492-1075-ND       | .66     | 3.65 | 9908-312       |
|            | 3/8 (9.5)              | .125 (3.2) | .187 (4.7) | 492-1076-ND       | .72     | 3.94 | 9908-375       |
|            | 7/16 (11.1)            | .125 (3.2) | .187 (4.7) | 492-1077-ND       | .72     | 3.94 | 9908-437       |
|            | 1/2 (12.7)             | .125 (3.2) | .187 (4.7) | 492-1078-ND       | .72     | 3.94 | 9908-500       |
|            | 9/16 (14.3)            | .125 (3.2) | .187 (4.7) | 492-1079-ND       | .72     | 3.94 | 9908-562       |
|            | 5/8 (15.9)             | .125 (3.2) | .187 (4.7) | 492-1080-ND       | .77     | 4.25 | 9908-625       |
|            | 3/4 (19.1)             | .125 (3.2) | .187 (4.7) | 492-1081-ND       | .77     | 4.25 | 9908-750       |
|            | 13/16 (20.6)           | .125 (3.2) | .187 (4.7) | 492-1082-ND       | .82     | 4.50 | 9908-812       |
|            | 7/8 (22.2)             | .125 (3.2) | .187 (4.7) | 492-1083-ND       | .82     | 4.50 | 9908-875       |
|            | 15/16 (23.8)           | .125 (3.2) | .187 (4.7) | 492-1084-ND       | .82     | 4.50 | 9908-937       |
|            | 1 (25.4)               | .125 (3.2) | .187 (4.7) | 492-1085-ND       | .82     | 4.50 | 9908-1000      |
| #4         | 1/16 (1.6)             | .125 (3.2) | 250 (6.4)  | 492-1086-ND       | .66     | 3.65 | 9911-062       |
|            | 1/8 (3.2)              | .125 (3.2) | 250 (6.4)  | 492-1087-ND       | .66     | 3.65 | 9911-125       |
|            | 3/16 (4.8)             | .125 (3.2) | 250 (6.4)  | 492-1088-ND       | .66     | 3.65 | 9911-187       |
|            | 1/4 (6.4)              | .125 (3.2) | 250 (6.4)  | 492-1089-ND       | .66     | 3.65 | 9911-250       |
|            | 5/16 (7.9)             | .125 (3.2) | 250 (6.4)  | 492-1090-ND       | .66     | 3.65 | 9911-312       |
|            | 3/8 (9.5)              | .125 (3.2) | 250 (6.4)  | 492-1091-ND       | .72     | 3.94 | 9911-375       |
|            | 7/16 (11.1)            | .125 (3.2) | 250 (6.4)  | 492-1092-ND       | .72     | 3.94 | 9911-437       |
|            | 1/2 (12.7)             | .125 (3.2) | 250 (6.4)  | 492-1093-ND       | .72     | 3.94 | 9911-500       |
|            | 9/16 (14.3)            | .125 (3.2) | 250 (6.4)  | 492-1094-ND       | .72     | 3.94 | 9911-562       |
|            | 5/8 (15.9)             | .125 (3.2) | 250 (6.4)  | 492-1095-ND       | .77     | 4.25 | 9911-625       |
|            | 3/4 (19.1)             | .125 (3.2) | 250 (6.4)  | 492-1096-ND       | .77     | 4.25 | 9911-750       |
|            | 13/16 (20.6)           | .125 (3.2) | 250 (6.4)  | 492-1097-ND       | .82     | 4.50 | 9911-812       |
|            | 7/8 (22.2)             | .125 (3.2) | 250 (6.4)  | 492-1098-ND       | .82     | 4.50 | 9911-875       |
|            | 15/16 (23.8)           | .125 (3.2) | 250 (6.4)  | 492-1099-ND       | .82     | 4.50 | 9911-937       |
|            | 1 (25.4)               | .125 (3.2) | 250 (6.4)  | 492-1100-ND       | .82     | 4.50 | 9911-1000      |
| #6         | 1/16 (1.6)             | .147 (3.7) | 250 (6.4)  | 492-1101-ND       | .66     | 3.65 | 9905-062       |
|            | 1/8 (3.2)              | .147 (3.7) | 250 (6.4)  | 492-1102-ND       | .66     | 3.65 | 9905-125       |
|            | 3/16 (4.8)             | .147 (3.7) | 250 (6.4)  | 492-1103-ND       | .66     | 3.65 | 9905-187       |
|            | 1/4 (6.4)              | .147 (3.7) | 250 (6.4)  | 492-1104-ND       | .66     | 3.65 | 9905-250       |
|            | 5/16 (7.9)             | .147 (3.7) | 250 (6.4)  | 492-1105-ND       | .66     | 3.65 | 9905-312       |
|            | 3/8 (9.5)              | .147 (3.7) | 250 (6.4)  | 492-1106-ND       | .72     | 3.94 | 9905-375       |
|            | 7/16 (11.1)            | .147 (3.7) | 250 (6.4)  | 492-1107-ND       | .72     | 3.94 | 9905-437       |
|            | 1/2 (12.7)             | .147 (3.7) | 250 (6.4)  | 492-1108-ND       | .72     | 3.94 | 9905-500       |
|            | 9/16 (14.3)            | .147 (3.7) | 250 (6.4)  | 492-1109-ND       | .72     | 3.   |                |