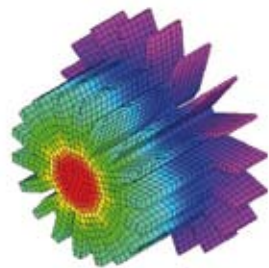


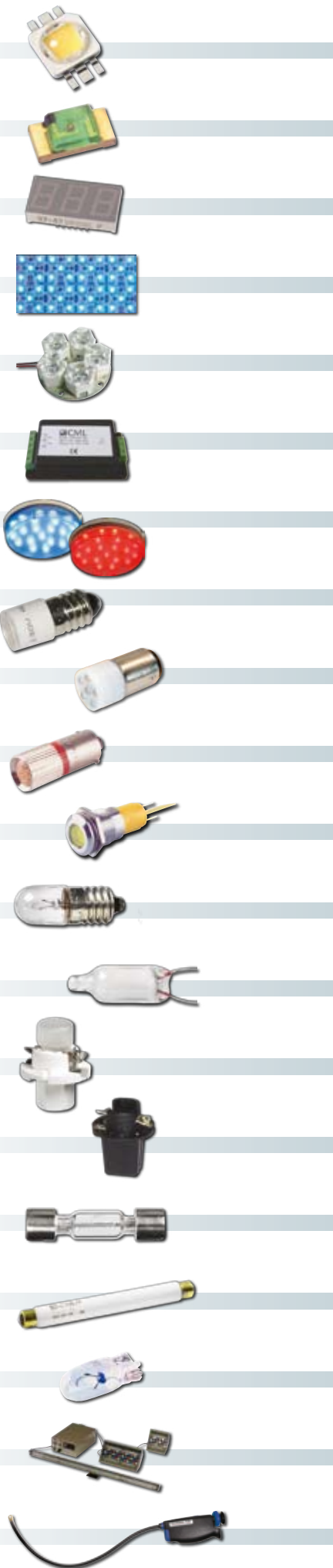
From **1910**, when we were incorporated, to the present day our engineers have found innovative ways to develop new product ideas. In **1922** CML filed our first patent and have been developing products from tiny incandescent lamps to sophisticated LED solutions ever since.

Based in the Americas, Europe and Asia and employing **1200** people across **12** sites with a turnover of **\$175 m**, CML-IT has grown to a worldwide company.

Using the top names in **LED's** and with over **30 million** pieces available in stock from our European logistics centre, we ensure our products give the best results in their application.







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## Samsung LEDs

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|             |                                      | Samsung Part Number                      | Size                         | Cool White | Warm White | Red | Green | Blue | Amber | RGB      | Number of Terminals | Viewing Angle | Typ. Brightness            | Current             | Power |
|-------------|--------------------------------------|--|------------------------------|------------|------------|-----|-------|------|-------|----------|---------------------|---------------|----------------------------|---------------------|-------|
|             | Middle Power LED 3228 1-Chip-LED     | SLSNNWH802TS (old)<br>SLTNCW13122N (new) | 3.2 x 2.8 x 1.9 mm<br>PLCC-2 | ●          | -          | -   | -     | -    | -     | -        | 2                   | 120°          | 2000 mcd                   | 30 mA               |       |
|             |                                      | SLTNNR13122N                             |                              | -          | -          | ●   | -     | -    | -     | -        | 2                   | 120°          | 520 mcd                    | 20 mA               |       |
|             |                                      | SLTNGG13122N                             |                              | -          | -          | -   | ●     | -    | -     | -        | 2                   | 120°          | 1050 mcd                   | 20 mA               |       |
|             |                                      | SLTNNB13122N                             |                              | -          | -          | -   | -     | ●    | -     | -        | 2                   | 120°          | 340 mcd                    | 20 mA               |       |
| <br>        | Middle Power LED 3228 2-Chip-LED     | SLSNNWH822TS (old)<br>SLTNCW23144N (new) | 3.2 x 2.8 x 1.9 mm<br>PLCC-4 | ●          | -          | -   | -     | -    | -     | -        | 4                   | 120°          | 4000 mcd                   | 2 x 30 mA           |       |
|             | Middle Power LED 3228 3-Chip-LED     | SLSNNWH812TS (old)<br>SLTNCW33149N (new) |                              | ●          | -          | -   | -     | -    | -     | -        | 4                   | 120°          | 6000 mcd                   | 3 x 30 mA           |       |
|             |                                      | SLSRGBW812TS                             |                              | -          | -          | -   | -     | -    | -     | ●        | 4                   | 120°          | 260 mcd, 650 mcd, 150 mcd  | 20 mA, 10 mA, 10 mA |       |
| <br>        | Middle Power LED 5252 1-Chip-LED     | SLSNNWH805TS                             | 5.2 x 5.2 x 1.3 mm           | ●          | -          | -   | -     | -    | -     | -        | 2                   | 120°          | 1700 mcd                   | 20 mA               |       |
|             | Middle Power LED 5252 2-Chip-LED     | SLSNNWH825TS                             |                              | ●          | -          | -   | -     | -    | -     | -        | 2                   | 120°          | 3500 mcd                   | 40 mA               |       |
|             |                                      | SLSNNWW825TS                             |                              | -          | ●          | -   | -     | -    | -     | -        | 2                   | 120°          | 2500 mcd                   | 40mA                |       |
|             |                                      | SLSNNRA825TS                             |                              | -          | -          | ●   | -     | -    | -     | -        | 2                   | 120°          | 1000 mcd                   | 40 mA               |       |
|             |                                      | SLSNNGA825TS                             |                              | -          | -          | -   | ●     | -    | -     | -        | 2                   | 120°          | 2700 mcd                   | 40 mA               |       |
|             |                                      | SLSNNBA825TS                             |                              | -          | -          | -   | -     | ●    | -     | -        | 2                   | 120°          | 600 mcd                    | 40 mA               |       |
| SLSNNA825TS | -                                    | -  | -                            | -          | -          | ●   | -     | 2    | 120°  | 1200 mcd | 40 mA               |               |                            |                     |       |
|             | Middle Power LED 5252 3-Chip-LED     | SLSNNWH815TS                             | 5.2 x 5.2 x 1.3 mm           | ●          | -          | -   | -     | -    | -     | -        | 6                   | 120°          | 5200 mcd                   | 3 x 20 mA           |       |
|             |                                      | SLSNNWW815TS                             |                              | -          | ●          | -   | -     | -    | -     | -        | 6                   | 120°          | 5000 mcd                   | 3 x 20 mA           |       |
|             |                                      | SLSRGBW815TS                             |                              | -          | -          | -   | -     | -    | -     | ●        | 6                   | 120°          | 600 mcd, 1400 mcd, 400 mcd | 3 x 20 mA           |       |
|             | High Power LED Sunnix 5 without lens | SLHNNWH511N0                             | 7.0 x 7.0 x 2.0 mm           | ●          | -          | -   | -     | -    | -     | -        | 2                   | 120°          | 60-90 lm                   | 350 mA              | 1 W   |
|             |                                      | SLHNNWH531N0                             |                              | ●          | -          | -   | -     | -    | -     | -        | 2                   | 120°          | 100-160 lm                 | 700 mA              | 3 W   |
|             |                                      | SLHNNWW511N0                             |                              | -          | ●          | -   | -     | -    | -     | -        | 2                   | 120°          | 40-70 lm                   | 350 mA              | 1 W   |
|             |                                      | SLHNNWW531N0                             |                              | -          | ●          | -   | -     | -    | -     | -        | 2                   | 120°          | 80-120 lm                  | 700 mA              | 3 W   |
|             | High Power LED Sunnix 5 with lens    | SLHNNWH511T0                             | 7.0 x 7.0 x 4.9 mm           | ●          | -          | -   | -     | -    | -     | -        | 2                   | 55°           | 60-90 lm                   | 350 mA              | 1 W   |
|             |                                      | SLHNNWH531T0                             |                              | ●          | -          | -   | -     | -    | -     | -        | 2                   | 55°           | 100-160 lm                 | 700 mA              | 3 W   |
|             |                                      | SLHNNWW511T0                             |                              | -          | ●          | -   | -     | -    | -     | -        | 2                   | 55°           | 40-70 lm                   | 350 mA              | 1 W   |
|             |                                      | SLHNNWW531T0                             |                              | -          | ●          | -   | -     | -    | -     | -        | 2                   | 55°           | 80-120 lm                  | 700 mA              | 3 W   |
|             | High Power LED Sunnix 6              | SLHNNWH629T0                             | 8.0 x 8.0 x 4.0 mm           | ●          | -          | -   | -     | -    | -     | 6        | 120°                | 90-150 lm     | 3 x 60 mA                  | 2 W                 |       |

● standard ○ available on request — please contact our sales representative



# Kingbright LEDs

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| Kingbright Series     | Size         | Red                          | Orange | Green | Bluish-Green | Blue | Yellow | Bi-Color (2-chips) | Tri-Color (3-chips) | Infrared | Number of Terminals | Ceramic LED | Current / Chip             |       |
|-----------------------|--------------|------------------------------|--------|-------|--------------|------|--------|--------------------|---------------------|----------|---------------------|-------------|----------------------------|-------|
| Through Hole LEDs     | L-2060       | 1.8 mm round                 | ●      | ●     | ●            | ●    | ●      | -                  | -                   | ○        | 2                   | -           | 20 mA                      |       |
|                       | L-7104       | 3 mm round                   | ●      | ●     | ●            | ●    | ●      | -                  | -                   | ●        | 2                   | -           | 20 mA                      |       |
|                       | L-937        |                              | -      | -     | -            | -    | -      | -                  | ●                   | -        | -                   | 2           | -                          | 20 mA |
|                       | L-115        |                              | -      | -     | -            | -    | -      | -                  | ●                   | -        | -                   | 3           | -                          | 20 mA |
|                       | L-7113       | 5 mm round                   | ●      | ●     | ●            | ●    | ●      | -                  | -                   | ●        | 2                   | -           | 20 mA                      |       |
|                       | L-57         |                              | -      | -     | -            | -    | -      | -                  | ●                   | -        | -                   | 2           | -                          | 20 mA |
|                       | L-59         |                              | -      | -     | -            | -    | -      | -                  | ●                   | -        | -                   | 3           | -                          | 20 mA |
|                       | L-154A4      | 8 mm round                   | -      | -     | -            | -    | -      | -                  | ●                   | -        | -                   | 4           | -                          | 20 mA |
|                       | L-793        |                              | ●      | ●     | ●            | ●    | ●      | ●                  | -                   | -        | ○                   | 2           | -                          | 20 mA |
|                       | L-799        |                              | -      | -     | -            | -    | -      | -                  | ●                   | -        | -                   | 3           | -                          | 20 mA |
|                       | L-813        | 10 mm round                  | ●      | ●     | ●            | ●    | ●      | ●                  | -                   | -        | ○                   | 2           | -                          | 20 mA |
|                       | L-819        |                              | -      | -     | -            | -    | -      | -                  | ●                   | -        | -                   | 3           | -                          | 20 mA |
| SMD LEDs              | KPHHS-1005   | 0402<br>1.0 x 0.5 x 0.5 mm   | ●      | ●     | ●            | ●    | ●      | -                  | -                   | ○        | 2                   | -           | 20 mA                      |       |
|                       | KP-1608      | 0603<br>1.6 x 0.8 x 1.1 mm   | ●      | ●     | ●            | ●    | ●      | -                  | -                   | ●        | 2                   | -           | 20 mA                      |       |
|                       | KPT-1608     | 0603<br>1.6 x 0.8 x 0.75 mm  | ●      | ●     | ●            | ●    | ●      | -                  | -                   | ○        | 2                   | -           | 20 mA                      |       |
|                       | KPG-1608     | 0603<br>1.6 x 0.8 x 0.25 mm  | ●      | ●     | ●            | ●    | ●      | -                  | -                   | ○        | 2                   | -           | 20 mA                      |       |
|                       | KPTB-1612    | 0605<br>1.6 x 1.25 x 0.65 mm | -      | -     | -            | -    | -      | -                  | ●                   | -        | -                   | 4           | -                          | 20 mA |
|                       | KP-2012      | 0805<br>2.0 x 1.25 x 1.1 mm  | ●      | ●     | ●            | ●    | ●      | -                  | -                   | ●        | 2                   | -           | 20 mA                      |       |
|                       | KPT-2012     | 0805<br>2.0 x 1.25 x 0.75 mm | ●      | ●     | ●            | ●    | ●      | -                  | -                   | ○        | 2                   | -           | 20 mA                      |       |
|                       | KPBL-3025    | 1109<br>3.0 x 2.5 x 1.4 mm   | -      | -     | -            | -    | -      | -                  | ●                   | -        | -                   | 4           | -                          | 20 mA |
|                       | KP-3216      | 1206<br>3.2 x 1.6 x 1.1 mm   | ●      | ●     | ●            | ●    | ●      | ●                  | -                   | -        | ●                   | 2           | -                          | 20 mA |
|                       | KPT-3216     | 1206<br>3.2 x 1.6 x 0.75 mm  | ●      | ●     | ●            | ●    | ●      | ●                  | -                   | -        | ○                   | 2           | -                          | 20 mA |
|                       | KA-3528A     | 3.5 x 2.8 x 1.9 mm           | ●      | ●     | ●            | ●    | ●      | ●                  | -                   | -        | ●                   | 2           | -                          | 20 mA |
|                       | KPF-3236     | 3.2 x 3.6 x 1.1 mm           | -      | -     | -            | -    | -      | -                  | -                   | ●        | -                   | 6           | -                          | 20 mA |
| Ceramic SMD LEDs      | KT-2520      | 2.5 x 2.0 x 0.8 mm           | ●      | -     | ●            | -    | ●      | ●                  | -                   | -        | -                   | ●           | 250 mA                     |       |
|                       | KT-3228      | 3.2 x 2.8 x 0.8 mm           | ●      | -     | ●            | -    | ●      | ●                  | -                   | -        | -                   | ●           | 350 mA                     |       |
|                       | KT-3535      | 3.5 x 3.5 x 0.8 mm           | ●      | -     | ●            | -    | ●      | ●                  | -                   | -        | -                   | ●           | 350 mA                     |       |
|                       | KT-5050      | 5.0 x 5.0 x 1.0 mm           | ●      | -     | ●            | -    | ●      | ●                  | -                   | -        | -                   | ●           | 350 mA                     |       |
| SMD LEDs Side View    | KPA-1606     | 0602<br>1.6 x 0.6 x 1.2 mm   | ●      | ●     | ●            | ●    | ●      | -                  | -                   | -        | 2                   | -           | 20 mA                      |       |
|                       | KPA-2106     | 0802<br>2.1 x 0.6 x 1.0 mm   | ●      | ●     | ●            | ●    | ●      | -                  | -                   | -        | 2                   | -           | 20 mA                      |       |
|                       | KPA-3010     | 1104<br>3.0 x 1.0 x 2.0      | ●      | ●     | ●            | ●    | ●      | -                  | -                   | ●        | 2                   | -           | 20 mA                      |       |
|                       | KA-4040      | 4.0 x 4.0 mm                 | ●      | ●     | ●            | ●    | ●      | ●                  | -                   | -        | ○                   | 2           | -                          | 20 mA |
| High Power LEDs       | KAD1-9090    | 9.0 x 9.0 x 6.2 mm           | ●      | -     | ●            | -    | ●      | ●                  | -                   | -        | -                   | -           | 350 mA                     |       |
|                       | KAD1-9090BRG | 9.0 x 9.0 x 6.4 mm           | -      | -     | -            | -    | -      | -                  | ●                   | -        | 4                   | -           | 3 x 350 mA                 |       |
| Linear High Power LED | KAS-4805     | 48.0 x 5.0 x 1.6 mm          | ●      | -     | ●            | -    | ●      | ●                  | -                   | -        | 2                   | -           | 300 mA<br>500 mA<br>700 mA |       |



## Kingbright Displays

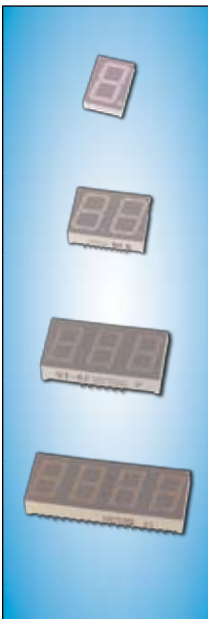


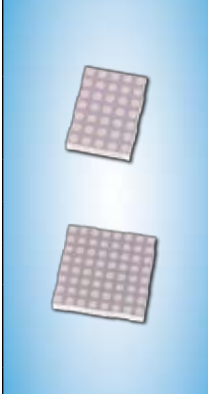
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### Kingbright®

| Kingbright Series  |                                | Size                   | Red | Orange | Green | Blue | Yellow | 1 Digit | 2 Digits | 3 Digits | 4 Digits | Number of Dots |
|--|--------------------------------|------------------------|-----|--------|-------|------|--------|---------|----------|----------|----------|----------------|
|  <p>7 Segment Displays</p>      | Cx25                           | 0.244 inch<br>6.2 mm   | ●   | ○      | ●     | ○    | ●      | -       | -        | -        | ●        | -              |
|  | Sx03<br>Dx03*                  | 0.3 inch<br>7.62 mm    | ●   | ○      | ●     | ○    | ●      | ●       | ●*       | -        | -        | -              |
|  | Sx36                           | 0.36 inch<br>9.14 mm   | ●   | ○      | ●     | ○    | ●      | ●       | -        | -        | -        | -              |
|  | Sx39                           | 0.39 inch<br>9.9 mm    | ●   | ○      | ●     | ○    | ●      | ●       | -        | -        | -        | -              |
|  | Sx04, Dx04*<br>Bx04**, Cx04*** | 0.4 inch<br>10.16 mm   | ●   | ○      | ●     | ○    | ●      | ●       | ●*       | ●**      | ●***     | -              |
|  | Sx43                           | 0.43 inch<br>10.92 mm  | ●   | ○      | ●     | ○    | ●      | ●       | -        | -        | -        | -              |
|  | Sx05                           | 0.5 inch<br>12.7 mm    | ●   | ○      | ●     | ○    | ●      | ●       | -        | -        | -        | -              |
|  | Sx52                           | 0.52 inch<br>13.2 mm   | ●   | ○      | ●     | ○    | ●      | ●       | -        | -        | -        | -              |
|  | Sx56, Dx56*<br>Bx56**, Cx56*** | 0.56 inch<br>14.2 mm   | ●   | ○      | ●     | ○    | ●      | ●       | ●*       | ●**      | ●***     | -              |
|  | Sx08<br>Dx08*                  | 0.8 inch<br>20.32 mm   | ●   | ○      | ●     | ○    | ●      | ●       | ●*       | -        | -        | -              |
|  | Sx10                           | 1.0 inch<br>25.4 mm    | ●   | ○      | ●     | ○    | ●      | ●       | -        | -        | -        | -              |
|  | Sx15                           | 1.5 inch<br>38.1 mm    | ●   | ○      | ●     | ○    | ●      | ●       | -        | -        | -        | -              |
|  | Sx18                           | 1.75 inch<br>44.5 mm   | ●   | ○      | ●     | ○    | ●      | ●       | -        | -        | -        | -              |
|  | Sx23                           | 2.24 inch<br>56.9 mm   | ●   | ○      | ●     | ○    | ●      | ●       | -        | -        | -        | -              |
|  | Sx40                           | 3.984 inch<br>101.2 mm | ●   | ○      | ●     | ○    | ●      | ●       | -        | -        | -        | -              |
|  <p>SMD 7 Segment Displays</p> | KCSx02<br>KCDx02*              | 0.2 inch<br>5.08 mm    | ●   | ●      | ●     | ●    | ●      | ●       | ●*       | -        | -        | -              |
|  | KCSx03<br>KCDx03*              | 0.3 inch<br>7.62 mm    | ●   | ●      | ●     | ●    | ●      | ●       | ●*       | -        | -        | -              |
|  | KCSx04<br>KCDx04*              | 0.4 inch<br>10.16 mm   | ●   | ●      | ●     | ●    | ●      | ●       | ●*       | -        | -        | -              |
|  | KCSx56<br>KCDx56*              | 0.56 inch<br>14.2 mm   | ●   | ●      | ●     | ●    | ●      | ●       | ●*       | -        | -        | -              |
|  <p>Alphanumeric Displays</p>  | PSx05                          | 0.5 inch<br>12.7 mm    | ●   | ○      | ●     | ○    | ●      | ●       | -        | -        | -        | -              |
|  | PDx54                          | 0.543 inch<br>13.8 mm  | ●   | ○      | ●     | ○    | ●      | -       | ●        | -        | -        | -              |
|  | PSx08                          | 0.8 inch<br>20.32 mm   | ●   | ○      | ●     | ○    | ●      | ●       | -        | -        | -        | -              |
|  | PSx12                          | 1.2 inch<br>30.48 mm   | ●   | ○      | ●     | ○    | ●      | ●       | -        | -        | -        | -              |
|  | PSx23                          | 2.24 inch<br>56.8 mm   | ●   | ○      | ●     | ○    | ●      | ●       | -        | -        | -        | -              |
|  <p>Dot-Matrix Displays</p>    | Tx07                           | 0.7 inch<br>18.0 mm    | ●   | ○      | ●     | ○    | ●      | -       | -        | -        | -        | 5 x 7          |
|  | Tx12                           | 1.2 inch<br>30.0 mm    | ●   | ○      | ●     | ○    | ●      | -       | -        | -        | -        | 5 x 7          |
|  | Tx16                           | 1.38 inch<br>35.2 mm   | ●   | ○      | ●     | ○    | ●      | -       | -        | -        | -        | 5 x 8          |
|  | Tx15                           | 1.5 inch<br>38.0 mm    | ●   | ○      | ●     | ○    | ●      | -       | -        | -        | -        | 8 x 8          |
|  | Tx18                           | 1.85 inch<br>47.0 mm   | ●   | ○      | ●     | ○    | ●      | -       | -        | -        | -        | 8 x 8          |
|  | Tx20                           | 2.0 inch<br>50.0 mm    | ●   | ○      | ●     | ○    | ●      | -       | -        | -        | -        | 5 x 7          |
|  | Tx23                           | 2.3 inch<br>58.0 mm    | ●   | ○      | ●     | ○    | ●      | -       | -        | -        | -        | 8 x 8          |
|  | Tx24                           | 2.4 inch<br>60.8 mm    | ●   | ○      | ●     | ○    | ●      | -       | -        | -        | -        | 5 x 8          |
|  | Tx30                           | 3.0 inch<br>76.2 mm    | ●   | ○      | ●     | ○    | ●      | -       | -        | -        | -        | 5 x 7          |
| Tx40   | 4.0 inch<br>100.0 mm           | ●                      | ○   | ●      | ○     | ●    | -      | -       | -        | -        | 5 x 7    |                |

● standard ○ available on request — please contact our sales representative





# LEDules I

CML-IT LED Modules are available in various sizes, shapes and colours and utilise the CML-IT line of high quality LEDs. The features are easy to use, compact construction, long life span, low maintenance cost, constant current regulation and no IR & UV radiation. The listing below contains generic product information. **Please visit our website at [www.cml-it.com](http://www.cml-it.com) for a detailed listing of product specifications.**

CML-IT LED Module sind in verschiedenen Größen, Formen und Farben verfügbar und beinhalten hochwertige LEDs aus der CML-IT Produktlinie. Die Merkmale sind leichte Handhabung, geringe Größe, lange Lebensdauer, niedrige Instandhaltungskosten, konstante Stromregelung und keine IR & UV Strahlung. **Bitte besuchen Sie unsere Website [www.cml-it.com](http://www.cml-it.com) für eine detailliertere Auflistung der Produktspezifikationen.**

|  | Series Numbers                                | Size            | Red                             | Amber | Yellow | Orange | Green | Blue | Cyan | Cool White | Warm White | RGB | Radiance Angle Range (degree) | Mounted LEDs                             | Lum. Flux                     | Voltage                            |
|--|---|-----------------|---------------------------------|-------|--------|--------|-------|------|------|------------|------------|-----|-------------------------------|--|-------------------------------|------------------------------------|
|  | LM-Axxx-1x1                                   | 30 x 30 mm      | ●                               | —     | ●      | ●      | ●     | ●    | —    | ●          | —          | —   | 120°                          | 5 LEDs (G, B, W)<br>9 LEDs (R, Y, O)     | 210 - 720 mcd per LED         | 24 VDC                             |
|  | LM-Axxx-2x2                                   | 60 x 60 mm      | ●                               | —     | ●      | ●      | ●     | ●    | —    | ●          | —          | —   | 120°                          | 20 LEDs (G, B, W)<br>36 LEDs (R, Y, O)   | 210 - 720 mcd per LED         | 24 VDC                             |
|  | LM-Axxx-2x4                                   | 60 x 120 mm     | ●                               | —     | ●      | ●      | ●     | ●    | —    | ●          | —          | —   | 120°                          | 40 LEDs (G, B, W)<br>72 LEDs (R, Y, O)   | 210 - 720 mcd per LED         | 24 VDC                             |
|  | LM-Axxx-6x12                                  | 180 x 360 mm    | ●                               | —     | ●      | ●      | ●     | ●    | —    | ●          | —          | —   | 120°                          | 360 LEDs (G, B, W)<br>648 LEDs (R, Y, O) | 210 - 720 mcd per LED         | 24 VDC                             |
|  | LM-Bxxx-1                                     | 200 x 10 mm     | ●                               | —     | ●      | ●      | ●     | ●    | —    | ●          | —          | —   | 120°                          | 18 LEDs                                  | 210 - 720 mcd per LED         | 24 VDC                             |
|  | LM-Bxxx-2                                     | 400 x 10 mm     | ●                               | —     | ●      | ●      | ●     | ●    | —    | ●          | —          | —   | 120°                          | 36 LEDs                                  | 210 - 720 mcd per LED         | 24 VDC                             |
|  | LM-FB26x                                      | 364 x 10 mm     | ●                               | —     | ●      | —      | ●     | ●    | —    | —          | —          | —   | 120°                          | 26                                       | 200 - 850 mcd per LED         | 10 VDC                             |
|  | LM-FB26x-12                                   | 364 x 10 mm     | ●                               | —     | ●      | —      | ●     | ●    | —    | —          | —          | —   | 120°                          | 26                                       | 60 - 850 mcd per LED          | 12 VDC                             |
|  | LM-FB20F-12                                   | 400 x 15 mm     | —                               | —     | —      | —      | —     | —    | —    | —          | —          | ●   | 100°                          | 20                                       | 1.5 / 3.5 / 2.3 lm per 4 LEDs | 12 VDC                             |
|  | Circle Module                                 | LM-Cxxx         | 45 mm diameter                  | ●     | —      | ●      | ●     | ●    | —    | ●          | —          | —   | 120°                          | 10 LEDs (G, B, W)<br>18 LEDs (R, Y, O)   | 210 - 640 mcd per LED         | 24 VDC                             |
|  | Hi-Flux Channel Letter Module Strip Module 1  | 9520CL-xxx      | 25 x 25 mm (1 x 1 inches)       | ●     | ●      | —      | ●     | ●    | ●    | ●          | ●          | —   | 120°                          | 1 per Module                             | 32 - 160 lm                   | 1.8 - 2.6 VDC<br>3.0 - 4.1 VDC     |
|  | Hi-Brite Channel Letter Module Strip Module 4 | 9500CL-xxx      | 30 x 30 mm (1.18 x 1.18 inches) | ●     | ●      | —      | ●     | ●    | ●    | ●          | ●          | —   | 120°                          | 4 per Module                             | 3 - 25                        | 9.0 - 14.0 VDC                     |
|  | TransLED-Module                               | CM-200LM012-xxx | 65 x 62 mm                      | ●     | ●      | —      | ●     | ●    | ●    | ●          | ●          | —   | 120°                          | 12                                       | 90 - 480 lm                   | 8.0 - 10.4 VDC<br>12.0 - 16.4 VDC  |
|  |   | CM-200LM018-xxx | 65 x 62 mm                      | ●     | ●      | —      | ●     | ●    | ●    | ●          | ●          | —   | 120°                          | 18                                       | 140 - 710 lm                  | 12.0 - 15.6 VDC<br>18.0 - 24.6 VDC |

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## LEDules II

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|  |  | Series Numbers | Size            | Red | Amber | Green | Blue | Cyan | Cool White | Warm White | RGB | Radiance Angle Range (degree) | Mounted LEDs per Module | Power consumption | max current consumption |
|--|--|----------------|-----------------|-----|-------|-------|------|------|------------|------------|-----|-------------------------------|-------------------------|-------------------|-------------------------|
|  | Strip Power LED Module 8W                  | ILL2B0005x     | 302.2 x 12.7 mm | ●   | ●     | ●     | ●    | ●    | ●          | ●          | —   | 120°                          | 6 x 1 W                 | 8 W               | 350 mA                  |
|  | Round Power LED Module 1W with lens        | ILL3B0006x     | Ø 44.2 mm       | ●   | ●     | ●     | ●    | ●    | ●          | ●          | —   | 10°<br>50°                    | 1 x 1 W                 | 1 W               | 350 mA                  |
|  | Round Power LED Module 1W without lens     | ILL2B0006x     | Ø 44.2 mm       | ●   | ●     | ●     | ●    | ●    | ●          | ●          | —   | 120°                          | 1 x 1 W                 | 1 W               | 350 mA                  |
|  | Round Power LED Module 3W with lens        | ILL3B0001x     | Ø 44.2 mm       | ●   | ●     | ●     | ●    | ●    | ●          | ●          | —   | 10°<br>50°                    | 1 x 3 W                 | 3 W               | 700 mA                  |
|  | Round Power LED Module 3W without lens     | ILL2B0001x     | Ø 44.2 mm       | ●   | ●     | ●     | ●    | ●    | ●          | ●          | —   | 120°                          | 1 x 3 W                 | 3 W               | 700 mA                  |
|  | Round Power LED Module 4W with lens        | ILL3B0003x     | Ø 32.5 mm       | ●   | ●     | ●     | ●    | ●    | ●          | ●          | —   | 11°<br>24°                    | 3 x 1 W                 | 4 W               | 350 mA                  |
|  | Round Power LED Module 4W without lens     | ILL2B0003x     | Ø 32.5 mm       | ●   | ●     | ●     | ●    | ●    | ●          | ●          | —   | 120°                          | 3 x 1 W                 | 4 W               | 350 mA                  |
|  | Round Power LED Module 9W with lens        | ILL3Bx004x     | Ø 38.6 mm       | ●   | ●     | ●     | ●    | ●    | ●          | ●          | —   | 12°<br>50°                    | 3 x 3 W                 | 9 W               | 700 mA                  |
|  | Round Power LED Module 9W without lens     | ILL2Bx004x     | Ø 38.6 mm       | ●   | ●     | ●     | ●    | ●    | ●          | ●          | —   | 120°                          | 3 x 3 W                 | 9 W               | 700 mA                  |
|  | Round Power LED Module 9W RGB with lens    | ILL3B0004Q     | Ø 38.6 mm       | —   | —     | —     | —    | —    | —          | —          | ●   | 12°                           | 3 x 3 W                 | 9 W               | 700mA                   |
|  | Round Power LED Module 9W RGB without lens | ILL2B0004Q     | Ø 38.6 mm       | —   | —     | —     | —    | —    | —          | —          | ●   | 120°                          | 3 x 3 W                 | 9 W               | 700mA                   |
|  | Round Power LED Module 14W with lens       | ILL3Bx002x     | Ø 44.1 mm       | ●   | ●     | ●     | ●    | ●    | ●          | ●          | —   | 12°<br>50°                    | 5 x 3 W                 | 14 W              | 700 mA                  |
|  | Round Power LED Module 14W without lens    | ILL2Bx002x     | Ø 44.1 mm       | ●   | ●     | ●     | ●    | ●    | ●          | ●          | —   | 120°                          | 5 x 3 W                 | 14 W              | 700 mA                  |

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## LED Drivers / Power Supplies

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|   |  | Serie Numbers | Size               | Voltage input | Voltage output             | Power output | Current output |
|---|--|---------------|--------------------|---------------|----------------------------|--------------|----------------|
|    | Constant Current Driver<br>3 W               | CMPSCC350S    | 40 x 40 x 22 mm    | 100 - 240 VAC | constant current regulated | 3 W          | 350 mA         |
|   |  | CMPSCC700S    |                    | 100 - 240 VAC | constant current regulated | 3 W          | 700 mA         |
|   | Constant Current Driver<br>7 W               | CMPSCC3507S   | 65 x 35 x 28 mm    | 100 - 240 VAC | constant current regulated | 7 W          | 350 mA         |
|   |  | CMPSCC7007S   |                    | 100 - 240 VAC | constant current regulated | 7 W          | 700 mA         |
|  | Constant Current Driver<br>12 W              | CMPSCC35012R  | 135 x 40 x 30 mm   | 240 VAC       | constant current regulated | 12 W         | 350 mA         |
|   |  | CMPSCC70012R  |                    | 240 VAC       | constant current regulated | 12 W         | 700 mA         |
|  | Constant Current Driver<br>24 W              | CMPSCC70024R  | 170 x 42 x 33 mm   | 240 VAC       | constant current regulated | 24 W         | 700 mA         |
|  | Constant Current Driver<br>Low Voltage Input | CMPSCC350L    | 25 x 25 x 15 mm    | 5 - 35 VDC    | constant current regulated | 10 W         | 350 mA         |
|   |  | CMPSCC700L    |                    | 5 - 35 VDC    | constant current regulated | 20 W         | 700 mA         |
|  | Constant Voltage Driver<br>3 W               | SL-DRV-12     | 40 x 40 x 22 mm    | 90 - 250 VAC  | 12 VDC                     | 3 W          | 0,25 A         |
|  | Constant Voltage Driver<br>15 W              | CMPS1215S     | 74 x 54 x 22 mm    | 187 - 264 VAC | 12 VDC                     | 15 W         | 1,25 A         |
|   |  | CMPS2415S     |                    | 187 - 264 VAC | 24 VDC                     | 15 W         | 0,65 A         |
|   | Constant Voltage Driver<br>70 W              | CMPS1260S     | 170 x 95 x 37.5 mm | 187 - 264 VAC | 12 VDC                     | 70 W         | 6,0 A          |
|   |  | CMPS2460S     |                    | 187 - 264 VAC | 24 VDC                     | 70 W         | 3,0 A          |



## Accentios

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|  |                  | Series Numbers | Size             | Gap  | Clear Lens | Satin Lens | 12 - 24 VAC / DC | 130 VAC | 240 VAC | Mounted LEDs |
|--|------------------|----------------|------------------|------|------------|------------|------------------|---------|---------|--------------|
|  | Accentio Red     | CMLxxxRS       | Ø 75 x 25 mm     | GX53 | —          | ●          | ○                | ●       | ●       | 21           |
|  |                  | CMLxxxRC       |                  | GX53 | ●          | —          | ○                | ●       | ●       | 21           |
|  | Accentio Green   | CMLxxxGS       | Ø 75 x 25 mm     | GX53 | —          | ●          | ○                | ●       | ●       | 21           |
|  |                  | CMLxxxGC       |                  | GX53 | ●          | —          | ○                | ●       | ●       | 21           |
|  | Accentio Yellow  | CMLxxxYS       | Ø 75 x 25 mm     | GX53 | —          | ●          | ○                | ●       | ●       | 21           |
|  |                  | CMLxxxYC       |                  | GX53 | ●          | —          | ○                | ●       | ●       | 21           |
|  | Accentio Blue    | CMLxxxBS       | Ø 75 x 25 mm     | GX53 | —          | ●          | ○                | ●       | ●       | 21           |
|  |                  | CMLxxxBC       |                  | GX53 | ●          | —          | ○                | ●       | ●       | 21           |
|  | Accentio White   | CMLxxxWS       | Ø 75 x 25 mm     | GX53 | —          | ●          | ○                | ●       | ●       | 21           |
|  |                  | CMLxxxWC       |                  | GX53 | ●          | —          | ○                | ●       | ●       | 21           |
|  | GX53 Lamp Holder | CMLGX53xx      | Ø 78.8 x 9.9 mm  | GX53 |            |            | ○                | ●       | ●       |              |
|  |                  |                | Ø 75.8 x 5.75 mm | GX53 |            |            | ○                | ●       | ●       |              |

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## Uni StarLEDs

CML-IT Based LEDs are an effective alternative for based incandescent miniature lamps. Based LEDs have a number of advantages when compared to incandescent miniature lamps. Features include long life expectancy of up to 100,000 hours with low power consumption. Based LEDs are shock and vibration proof and come in a wide variety of colours, styles and voltages. The listing below contains generic product information.

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| Series Numbers  | Size              | Base Type            | Number of LEDs | Red     | Green | Yellow | Blue | Cool White | Warm White | Flashing | Low voltage DC (24V, 28V) | Low voltage AC/DC (24V, 28V) | High voltage DC (130V) | High voltage AC (130V, 230V) | High voltage AC/DC (130V, 230V) | Special voltages |
|---|-------------------|----------------------|----------------|---------|-------|--------|------|------------|------------|----------|---------------------------|------------------------------|------------------------|------------------------------|---------------------------------|------------------|
|  | 15054             | T5.5                 | -              | 2       | -     | -      | -    | ●          | -          | -        | -                         | ●                            | -                      | -                            | -                               | ○                |
|  | 18822*<br>18826** | T-3 1/4<br>(11x25mm) | BA9s           | 4 or 7  | -     | -      | -    | ●          | -          | -        | -                         | ●*                           | -                      | -                            | ●**                             | ○                |
|  | 18823*<br>18827** | T-3 1/4<br>(11x25mm) | E10            | 4 or 7  | -     | -      | -    | ●          | -          | -        | -                         | ●*                           | -                      | -                            | ●**                             | ○                |
|  | 18846*<br>18847** | T-5<br>(16x33mm)     | E14            | 6 or 10 | -     | -      | -    | ●          | -          | -        | -                         | ●*                           | -                      | -                            | ●**                             | ○                |

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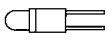
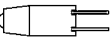
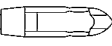
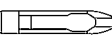
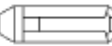
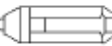

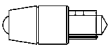


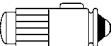

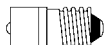


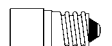



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|---|--|-----------------------|--------------|----------------|-----|-------|--------|------|------------|------------|----------|---------------------------|------------------------------|------------------------|------------------------------|---------------------------------|------------------|
|    | 15015                                    | T-1<br>(3 mm)         | Bi-Pin       | 1              | ●   | ●     | ●      | ●    | ●          | ●          | -        | -                         | ●                            | -                      | -                            | -                               | ○                |
|    | 15095                                    | T-1 3/4<br>(6 mm)     | Bi-Pin       | 1              | ●   | ●     | ●      | ●    | ●          | ●          | -        | -                         | ●                            | -                      | -                            | -                               | ○                |
|   | 15041                                    | T5.5k                 | -            | 1              | ●   | ●     | ●      | ●    | ●          | ●          | -        | -                         | ●                            | -                      | -                            | -                               | ○                |
|  | 15051                                    | T5.5                  | -            | 1              | ●   | ●     | ●      | ●    | ●          | ●          | -        | -                         | ●                            | -                      | -                            | -                               | ○                |
|  | 15071                                    | T6.8                  | -            | 1              | ●   | ●     | ●      | ●    | ●          | ●          | -        | -                         | ●                            | -                      | -                            | -                               | ○                |
|  | 15086                                    | T-2<br>(7 mm)         | PSB          | 1              | ●   | ●     | ●      | ●    | ●          | ●          | -        | -                         | ●                            | -                      | -                            | -                               | ○                |
|  | 15087                                    | T-2<br>(7 mm)         | ESB          | 1              | ●   | ●     | ●      | ●    | ●          | ●          | -        | -                         | ●                            | -                      | -                            | -                               | ○                |
|  | 15101                                    | T-1 3/4<br>(6 mm)     | MF SX6s      | 1              | ●   | ●     | ●      | ●    | ●          | ●          | -        | ●                         | -                            | -                      | -                            | -                               | ○                |
|  | 1511A<br>1511E*                          | T-1 1/2<br>(5 mm)     | WB W2x4.6d   | 1              | ●   | ●     | ●      | ●    | ●          | ●          | -        | ●*                        | ●                            | -                      | -                            | -                               | ○                |
|  | 1511B<br>1511F*                          | T-3 1/4<br>(10 mm)    | WB W2.1x9.5d | 1              | ●   | ●     | ●      | ●    | ●          | ●          | -        | ●*                        | ●                            | -                      | -                            | -                               | ○                |
|  | 15121                                    | T-1 3/4<br>(6 mm)     | MG S5.7s     | 1              | ●   | ●     | ●      | ●    | ●          | ●          | -        | -                         | ●                            | -                      | -                            | -                               | ○                |
|  | 15161                                    | T-2<br>(7x20 mm)      | BA7s         | 1              | ●   | ●     | ●      | ●    | ●          | ●          | -        | -                         | ●                            | -                      | -                            | -                               | ○                |
|  | 18600*<br>18602*<br>18606**<br>18608**   | T-3 1/4<br>(10x25 mm) | BA9s         | 1 or 3         | ●   | ●     | ●      | ●    | ●          | ●          | -        | -                         | ●*                           | ●**                    | ●***                         | -                               | ○                |
|  | 18601*<br>18603*<br>18607**<br>18609**   | T-3 1/4<br>(10x25 mm) | E10          | 1 or 3         | ●   | ●     | ●      | ●    | ●          | ●          | -        | -                         | ●*                           | ●**                    | ●***                         | -                               | ○                |
|  | 18630*<br>18631**<br>18640*<br>(18641)** | T-5<br>(16x35 mm)     | BA15d        | 3 or 6         | ●   | ●     | ●      | ●    | ●          | ●          | -        | -                         | ●*                           | -                      | -                            | ●**                             | ○                |
|  | 18633*<br>18634**<br>18643*<br>(18644)** | T-5<br>(16x35 mm)     | BA15s        | 3 or 6         | ●   | ●     | ●      | ●    | ●          | ●          | -        | -                         | ●*                           | -                      | -                            | ●**                             | ○                |
|  | 18636*<br>18637**<br>18646*<br>(18647)** | T-5<br>(16x35 mm)     | E14          | 3 or 6         | ●   | ●     | ●      | ●    | ●          | ●          | -        | -                         | ●*                           | -                      | -                            | ●**                             | ○                |
|  | 18580*<br>18581**                        | T-6 1/3<br>(20x46 mm) | BA15d        | 9              | ●   | ●     | ●      | ●    | ●          | ●          | -        | -                         | ●*                           | -                      | ●**                          | -                               | ○                |

● standard ○ available on request — please contact our sales representative



## MultiLEDs

CML-IT Based LEDs are an effective alternative for based incandescent miniature lamps. Based LEDs have a number of advantages when compared to incandescent miniature lamps. Features include long life expectancy of up to 100,000 hours with low power consumption. Based LEDs are shock and vibration proof and come in a wide variety of colours, styles and voltages. The listing below contains generic product information.

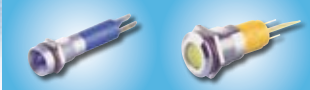
**Please visit our website at [www.cml-it.com](http://www.cml-it.com) for a detailed listing of product specifications.**

CML-IT gesockelte LEDs sind eine effektive Alternative zu Glühlampen. Gesockelte LEDs haben eine Vielzahl von Vorteilen, wenn man diese mit Miniaturlampen vergleicht. Diese sind eine lange Lebensdauer von bis zu 100.000 Stunden, niedriger Energieverbrauch und Schock- bzw. Vibrationsunempfindlichkeit. Sie sind in einer großen Vielfalt von Farben, Baugrößen und Spannungen erhältlich.

**Bitte besuchen Sie unsere Website [www.cml-it.com](http://www.cml-it.com) für eine detailliertere Auflistung der Produktspezifikationen.**

|  | Series Number                   | Size                  | Base Type  | Number of LED Chips | Red | Green | Yellow | Blue | White | Flashing | Low voltage DC (24V, 28V) | Low voltage AC/DC (24V, 28V) | High voltage DC (130V) | High voltage AC (130V, 230V) | High voltage AC/DC (130V, 230V) | Special voltages |
|--|---------------------------------|-----------------------|------------|---------------------|-----|-------|--------|------|-------|----------|---------------------------|------------------------------|------------------------|------------------------------|---------------------------------|------------------|
|  | 15010<br>(15012)                | T-1<br>(3 mm)         | Bi-Pin     | 4 or 6              | ●   | ●     | ●      | -    | -     | -        | ●                         | -                            | -                      | -                            | -                               | ○                |
|  | 15090<br>(15091)                | T-1 3/4<br>(6 mm)     | Bi-Pin     | 4 or 6              | ●   | ●     | ●      | -    | -     | -        | ●                         | -                            | -                      | -                            | -                               | ○                |
|  | 15020<br>(15021)                | T4.5                  |            | 4 or 6              | ●   | ●     | ●      | -    | -     | -        | ●                         | -                            | -                      | -                            | -                               | ○                |
|  | 15030<br>(15031)                | T4.6                  |            | 4 or 6              | ●   | ●     | ●      | -    | -     | -        | ●                         | -                            | -                      | -                            | -                               | ○                |
|  | 15040<br>(15041)                | T5.5k                 |            | 4 or 6              | ●   | ●     | ●      | -    | -     | -        | ●                         | -                            | -                      | -                            | -                               | ○                |
|  | 15050<br>(15051)                | T5.5                  |            | 4 or 6              | ●   | ●     | ●      | -    | -     | -        | ●                         | -                            | -                      | -                            | -                               | ○                |
|  | 15080<br>(15071)                | T6.8                  |            | 4 or 6              | ●   | ●     | ●      | -    | -     | -        | ●                         | -                            | -                      | -                            | -                               | ○                |
|  | 15100<br>(15101)                | T-1 3/4<br>(6 mm)     | MF SX6s    | 4 or 6              | ●   | ●     | ●      | -    | -     | -        | ●                         | -                            | -                      | -                            | -                               | ○                |
|  | 15110*<br>(15112)*<br>(15113)** | T-1 1/2<br>(5 mm)     | WB W2x4.6d | 4 or 6              | ●   | ●     | ●      | -    | -     | -        | ●*                        | ●**                          | -                      | -                            | -                               | ○                |
|  | 15120*<br>(15121)*<br>(15130)** | T-1 3/4<br>(6 mm)     | MG S5.7s   | 4 or 6              | ●   | ●     | ●      | -    | -     | -        | ●*                        | ●**                          | -                      | -                            | -                               | ○                |
|  | 15140*<br>(15139)*              | T-1 1/2<br>(5 mm)     | BA5s       | 4 or 6              | ●   | ●     | ●      | -    | -     | -        | ●*                        | -                            | -                      | -                            | -                               | ○                |
|  | 15161                           | T-2<br>(7 mm)         | BA7s       | 6                   | ●   | ●     | ●      | -    | -     | -        | ●                         | -                            | -                      | -                            | -                               | ○                |
|  | 18270**<br>18271*               | T-3 1/4<br>(10x21 mm) | BA9s       | 8                   | ●   | ●     | ●      | -    | -     | -        | ●*                        | ●**                          | -                      | -                            | -                               | ○                |
|  | 18310**<br>18311*<br>18240      | T-3 1/4<br>(10x28 mm) | BA9s       | 8                   | ●   | ●     | ●      | -    | -     | ●        | ●*                        | ●**                          | -                      | -                            | -                               | ○                |
|  | 18290**<br>18291*               | T-3 1/4<br>(10x21 mm) | E10        | 8                   | ●   | ●     | ●      | -    | -     | -        | ●*                        | ●**                          | -                      | -                            | -                               | ○                |
|  | 18330**<br>18331*               | T-3 1/4<br>(10x28 mm) | E10        | 8                   | ●   | ●     | ●      | -    | -     | -        | ●*                        | ●**                          | -                      | -                            | -                               | ○                |

● standard ○ available on request — please contact our sales representative



## Panel Mount Indicators

CML-IT offers panel mount indicators manufactured with LEDs. These indicators are available in a number of different lens and termination styles with voltages of 2V ~ 250V available off-the-shelf. The listing below contains generic product information.

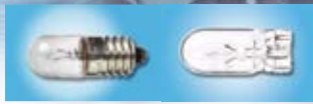
**Please visit our website at [www.cml-it.com](http://www.cml-it.com) for a detailed listing of product specifications.**

CML-IT bietet Signalleuchten mit eingebauten LEDs an. Diese Signalleuchten sind in vielen verschiedenen Größen, Linsentypen und Spannungen verfügbar. Bitte besuchen Sie unsere Website [www.cml-it.com](http://www.cml-it.com) für eine detailliertere Auflistung der Produktspezifikationen.

| Series Numbers  | Fixing Hole Diameter (mm) | Bezel Type      | Lamp Type       | Red | Green | Yellow | Amber | Blue | White | Clear | Red/Green/Yellow | Infrared | Round lens | Flat Lens | Conical lens | Metal Bezel | Plastic Bezel | Without resistor | Low voltage (6V, 12V, 24V, 28V) | High voltage AC (105 - 130V, 208 - 250V) | Special voltages |   |   |
|---|---------------------------|-----------------|-----------------|-----|-------|--------|-------|------|-------|-------|------------------|----------|------------|-----------|--------------|-------------|---------------|------------------|---------------------------------|--|------------------|---|---|
|   |                           |                 |                 | ●   | ●     | ●      | —     | —    | —     | —     | —                | —        | —          | —         | —            | ●           | —             | —                | —                               | —  | —                | — | — |
| 1900  | 6                         | Superflat bezel | LED             | ●   | ●     | ●      | —     | —    | —     | —     | —                | —        | —          | ●         | —            | ●           | —             | —                | ●                               | —  | —                | ○ |   |
| 1900  |                           |                 | LED             | ●   | ●     | ●      | —     | —    | —     | —     | —                | —        | —          | —         | ●            | —           | ●             | —                | ●                               | —  | —                | — | — |
| 1902  |                           | Prominent bezel | LED             | ●   | ●     | ●      | —     | ●    | ●     | —     | —                | —        | —          | ●         | —            | —           | ●             | —                | —                               | ●  | ●                | — | ○ |
| 1902  |                           |                 | LED             | ●   | ●     | ●      | —     | ●    | ●     | —     | —                | —        | —          | ●         | —            | —           | ●             | —                | ●                               | —  | —                | — | — |
| 1903  |                           | Recessed bezel  | LED             | ●   | ●     | ●      | —     | ●    | ●     | —     | —                | —        | —          | ●         | —            | —           | ●             | —                | —                               | ●  | —                | — | ○ |
| 1903  |                           |                 | LED             | ●   | ●     | ●      | —     | ●    | ●     | —     | —                | —        | —          | ●         | —            | —           | ●             | —                | ●                               | —  | —                | — | — |
| 1901 1910**   | 8                         | Superflat bezel | LED             | ●   | ●     | ●      | —     | —    | —     | —     | ●                | —        | —          | ●         | —            | ●           | —             | —                | ●                               | —  | —                | ○ |   |
| 1901 1910**   |                           |                 | LED             | ●   | ●     | ●      | —     | —    | —     | —     | —                | ●        | —          | —         | ●            | —           | ●             | —                | ●                               | —  | —                | — | — |
| 1904 1908(Sunlight)<br>1951* 1901(Flashing)<br>19TR**                       |                           | Prominent bezel | LED             | ●   | ●     | ●      | —     | ●    | ●     | —     | —                | ●        | —          | ●         | —            | —           | ●             | —                | —                               | ●  | ●                | — | ○ |
| 1904 1906(Flashing)<br>1912**   |                           |                 | LED             | ●   | ●     | ●      | —     | ●    | ●     | —     | —                | ●        | —          | ●         | —            | —           | ●             | —                | ●                               | —  | —                | — | — |
| 1905 1909(Sunlight)<br>1950* 1907(Flashing)<br>19TR**                       |                           | Recessed bezel  | LED             | ●   | ●     | ●      | —     | ●    | ●     | —     | —                | ●        | —          | ●         | —            | —           | ●             | —                | —                               | ●  | ●                | — | ○ |
| 1905 1907(Flashing)<br>1913**   |                           |                 | LED             | ●   | ●     | ●      | —     | ●    | ●     | —     | —                | ●        | —          | ●         | —            | —           | ●             | —                | ●                               | —  | —                | — | — |
| 1920  |                           | With optic      | LED             | ○   | ○     | ○      | —     | ○    | ○     | —     | —                | —        | ●          | —         | —            | —           | ●             | —                | —                               | ●  | —                | — | ○ |
| 1920  |                           |                 | LED             | ○   | ○     | ○      | —     | ○    | ○     | —     | —                | —        | ●          | —         | —            | —           | ●             | —                | ●                               | —  | —                | — | — |
| 192D  |                           | 12              | Prominent bezel | LED | ●     | ●      | ●     | —    | ●     | ●     | —                | —        | —          | ●         | —            | —           | ●             | —                | —                               | ●  | ●                | — | ○ |
| 192D  |                           |                 |                 | LED | ●     | ●      | ●     | —    | —     | —     | —                | —        | —          | —         | ●            | —           | —             | ●                | —                               | ●  | —                | — | — |
| 1921 192A(Sunlight)<br>1935* 1922(Flashing)<br>1924**                       | 14                        | Prominent bezel | LED             | ●   | ●     | ●      | —     | ●    | ●     | —     | —                | —        | ●          | —         | —            | ●           | —             | —                | ●                               | ●  | —                | ○ |   |
| 1921 1922(Flashing)<br>1924**   |                           |                 | LED             | ●   | ●     | ●      | —     | —    | —     | —     | —                | —        | —          | ●         | —            | —           | ●             | —                | ●                               | —  | —                | — | — |
| 1937/1940*(round lens)<br>1938/1941*(flat lens)<br>1939/1942*(conical lens) | 16                        | Prominent bezel | LED             | ●   | ●     | ●      | —     | ●    | ●     | —     | —                | —        | ●          | ●         | ●            | ●           | ●             | ○                | ●                               | ●  | —                | ○ |   |
| 1970/1973*(round lens)<br>1971/1974*(flat lens)<br>1972/1975*(conical lens) | 19                        | Prominent bezel | LED             | ●   | ●     | ●      | —     | ●    | ●     | —     | —                | —        | ●          | ●         | ●            | —           | —             | ○                | ●                               | ●  | —                | ○ |   |
| 195A/195E*(round lens)<br>195B/195F*(flat lens)                             | 22                        | Prominent bezel | LED             | ●   | ●     | ●      | —     | ●    | ●     | —     | —                | —        | ●          | ●         | —            | ●           | ●             | ○                | ●                               | ●  | —                | ○ |   |

● standard ○ available on request — please contact our sales representative





# Lamps

CML-IT incandescent lamps include a diverse range of configurations and performance characteristics. Configurations include the basic wire terminal and a wide variety of base styles from micro-midget flange to intermediate screw. These lamps are an ideal light source for all applications, back-lighting, illumination and indication. They are available in a wide range of voltages from as high as 1.5V up to as high as 240V. The listing below contains generic product information. **Please visit our website at [www.cml-it.com](http://www.cml-it.com) for a detailed listing of product specifications.**

CML-IT Glühlampen sind in vielen verschiedenen Bauformen, Sockeln, Spannungen und Leistungen erhältlich. Diese Lampen sind ideal für Anwendungsgebiete wie Hinterleuchtung, Miniaturbeleuchtung und Signalisierungen. **Bitte besuchen Sie unsere Website [www.cml-it.com](http://www.cml-it.com) für eine detailliertere Auflistung der Produktspezifikationen.**

| Bulb Shape | Size      |       | Approximate diameter |             | Voltage range (V) | Light Output Range (Lm) | Light Output Range (MSCP) | Wire Terminal | Flange Base | Groove Base | Screw Base | Bayonet Base | Bi-Pin Base | Wedge Base | Slide Base | BATs | Other Type |
|------------|-----------|-------|----------------------|-------------|-------------------|-------------------------|---------------------------|---------------|-------------|-------------|------------|--------------|-------------|------------|------------|------|------------|
|            | Inch      | mm    | Inch                 | mm          |                   |                         |                           |               |             |             |            |              |             |            |            |      |            |
|            | B-3 1/2   | —     | 0.445                | 11.3        | 1.9 - 12.5        | 1.9 - 65.7              | 0.15 - 5.23               | —             | —           | —           | —          | —            | —           | —          | —          | —    | ●          |
|            | B-6       | —     | 0.78                 | 19.81       | 6 - 28            | 42.7 - 201              | 3.4 - 16                  | —             | —           | —           | —          | ●            | —           | —          | —          | —    | —          |
|            | C7        | —     | 0.875                | 22.23       | 115 - 125         | 16.3 - 56.5             | 1.3 - 4.5                 | —             | —           | —           | ●          | ●            | —           | —          | —          | —    | —          |
|            | G-2       | —     | 0.25                 | 6.35        | 7 - 28            | 0.83 - 4                | 0.066 - 0.32              | —             | —           | —           | ●          | —            | —           | —          | —          | —    | —          |
|            | G-3 1/2   | G11   | 0.433                | 11          | 1.25 - 28         | 0.5 - 25.1              | 0.02 - 3.5                | —             | —           | —           | ●          | ●            | —           | —          | —          | —    | ●          |
|            | G-4 1/2   | —     | 0.59                 | 15          | 1.25 - 28         | 1.2 - 45.2              | 0.1 - 3.6                 | —             | —           | —           | ●          | ●            | —           | —          | —          | —    | ●          |
|            | G-6       | —     | 0.75                 | 19          | 6.5 - 32          | 20.1 - 75.4             | 1.6 - 6                   | —             | —           | —           | ●          | ●            | —           | —          | —          | —    | —          |
|            | GTL-1 1/2 | —     | 0.235                | 6           | 2.5               | —                       | —                         | —             | —           | ●           | —          | —            | —           | —          | —          | —    | —          |
|            | GTL-1 3/4 | —     | 0.235                | 6           | 2.5               | —                       | —                         | ●             | ●           | —           | —          | —            | —           | —          | —          | —    | —          |
|            | GTL-3     | —     | 0.375                | 9.53        | 1.2 - 3.8         | —                       | —                         | —             | —           | ●           | —          | —            | —           | —          | —          | —    | —          |
|            | R-12      | —     | 1.546                | 39.26       | 6 - 28            | —                       | —                         | —             | —           | —           | —          | ●            | —           | —          | —          | —    | —          |
|            | RP-11     | —     | 1.42                 | 36.1        | 5.5 - 44          | 263.9 - 1319.4          | 21 - 105                  | —             | —           | —           | —          | ●            | —           | —          | —          | —    | —          |
|            | S-6       | —     | 0.75                 | 19          | 6 - 250           | —                       | 0.95 - 4.8                | —             | —           | —           | ●          | ●            | —           | —          | —          | —    | —          |
|            | S-8       | —     | 1.04                 | 26.44       | 4 - 45            | 25.1 - 628.3            | 2 - 50                    | —             | —           | —           | —          | ●            | —           | —          | —          | —    | ●          |
|            | S-11      | —     | 1.42                 | 36          | 6.2 - 28          | 402.1 - 628.3           | 32 - 50                   | —             | —           | —           | —          | ●            | —           | —          | —          | —    | —          |
|            | T-3/4     | —     | 0.094                | 2.39        | 1.5 - 5           | 0.013 - 2.5             | 0.001 - 0.2               | ●             | ●           | —           | —          | —            | ●           | —          | —          | —    | —          |
|            | T-1       | T3    | 0.125                | 3.18        | 1.25 - 28         | 0.012 - 3.1             | 0.001 - 0.25              | ●             | ●           | —           | —          | —            | ●           | —          | —          | —    | —          |
|            | T-1 1/4   | T4    | 0.168                | 4.26        | 1.3 - 28          | 0.025 - 7.9             | 0.002 - 0.63              | ●             | ●           | —           | ●          | —            | ●           | ●          | —          | —    | —          |
|            | T-1 1/2   | T5    | 0.197                | 5           | 5 - 28            | 0.3 - 18.6              | 0.024 - 1.5               | ●             | —           | —           | —          | —            | ●           | ●          | —          | —    | —          |
|            | T-1 3/4   | T5.6  | 0.22                 | 5.85        | 1.30 - 60         | 0.0.12                  | 0.001 - 1.5               | ●             | ●           | ●           | ●          | —            | ●           | ●          | —          | —    | —          |
|            | T-2       | —     | 0.275 - 0.325        | 6.99 - 8.26 | 4.00 - 120        | —                       | 60 - 4000 EFC (*)         | ●             | —           | —           | —          | ●            | —           | —          | ●          | —    | —          |
|            |           | T6.5  | 0.248 - 0.263        | 6.3 - 6.7   | 6 - 24            | 8 - 23                  | 0.64 - 1.8                | —             | —           | —           | —          | —            | —           | —          | ●          | —    | —          |
|            | T-2 1/8   | T6.8  | 0.268                | 6.8         | 6 - 24            | 2.5 - 8.8               | 0.2 - 0.7                 | —             | —           | —           | —          | —            | —           | —          | —          | —    | ●          |
|            |           | T7    | 0.272 - 0.279        | 6.9 - 7.1   | 12 - 24           | 8 - 23.5                | 0.64 - 1.87               | —             | —           | —           | —          | —            | —           | —          | ●          | —    | —          |
|            | T-2 7/8   | T9    | 0.355                | 9           | 6 - 60            | 2.5 - 6.3               | 0.2 - 0.5                 | —             | —           | —           | —          | ●            | —           | —          | —          | —    | —          |
|            | T-3 1/4   | T10   | 0.4                  | 10.3        | 1.35 - 130        | 1 - 84                  | 0.08 - 6.68               | —             | —           | —           | ●          | ●            | —           | ●          | —          | —    | —          |
|            | T-4 1/2   | —     | 0.588                | 14.94       | 6.3 - 130         | 18.9 - 113.1            | 1.5 - 9                   | —             | —           | —           | ●          | ●            | —           | —          | —          | —    | —          |
|            | T-5       | T15   | 0.6                  | 16          | 3.5 - 120         | 44 - 310                | 3.2 - 25                  | —             | —           | —           | ●          | ●            | —           | ●          | —          | —    | —          |
|            | T-6       | —     | 0.75                 | 19.05       | 60 - 150          | 105.5 - 119.4           | 8.4 - 9.5                 | —             | —           | —           | ●          | ●            | —           | —          | —          | —    | —          |
|            | T-6 1/3   | T20   | 0.787                | 20          | 12                | 440 - 460               | 35 - 36.6                 | —             | —           | —           | —          | —            | —           | —          | ●          | —    | —          |
| T-6 1/2    | —         | 0.813 | 20.65                | 115 - 125   | 90.5 - 251.3      | 7.2 - 20                | —                         | —             | —           | ●           | ●          | —            | —           | —          | —          | —    |            |
| T-7        | —         | 0.875 | 22.23                | 115 - 125   | 100.5 - 125.6     | 8 - 10                  | —                         | —             | —           | ●           | ●          | —            | —           | —          | —          | —    |            |
| T-8        | —         | 1.06  | 26.92                | 115 - 230   | 149.5 - 235       | 11.9 - 18.7             | —                         | —             | —           | ●           | ●          | —            | —           | —          | —          | —    |            |
|            | TL-3/4    | —     | 0.094                | 2.39        | 5                 | —                       | —                         | ●             | ●           | —           | —          | —            | ●           | —          | —          | —    | —          |
|            | TL-1      | —     | 0.125                | 3.18        | 1.5 - 5           | —                       | —                         | ●             | ●           | —           | —          | —            | ●           | —          | —          | —    | —          |
|            | TL-1 3/4  | —     | 0.23                 | 5.85        | 2.5 - 14          | —                       | —                         | ●             | ●           | ●           | ●          | —            | ●           | —          | —          | —    | —          |

● standard ○ available on request — please contact our sales representative



## Neon Lamps

CML-IT line of Neon lamps include standard wire terminal lamps as well as many based options. Lamps are designed for use at line voltages of 100~125 VAC or 200~250 VAC and come with or without resistors attached to the lamp. The leads on the lamps can be cut and formed to custom sizes upon request. The listing below contains generic product information.

**Please visit our website at [www.cml-it.com](http://www.cml-it.com) for a detailed listing of product specifications.**

CML-IT Glimmlampen sind in vielen verschiedenen Bauformen und Sockeln erhältlich. Sie eignen sich hervorragend für Anwendungen ab 100V und werden bevorzugt zur Zustandsanzeige in klassischen Spannungsnetzen eingesetzt. Individuell konfigurierte Glimmlampen sind auf Anfrage erhältlich.

**Bitte besuchen Sie unsere Website [www.cml-it.com](http://www.cml-it.com) für eine detailliertere Auflistung der Produktspezifikationen.**

| Bulb Shape | SIZE    | BASE TYPES    |                    |            |              |            | COLOR |       | VOLTAGE |        |        | HOUSING       |               |
|------------|---------|---------------|--------------------|------------|--------------|------------|-------|-------|---------|--------|--------|---------------|---------------|
|            |         | Wire Terminal | Midget Flange Base | Slide Base | Bayonet Base | Screw Base | Red   | Green | 115VAC  | 230VAC | 400VAC | White plastic | Clear plastic |
|            | G-10    | -             | -                  | -          | ●            | -          | ●     | -     | ●       | ●      | ○      | -             | -             |
|            | S-11    | -             | -                  | -          | -            | ●          | ●     | -     | ●       | ●      | ○      | -             | -             |
|            | S-7     | -             | -                  | -          | ●            | -          | ●     | -     | ●       | ●      | ○      | -             | -             |
|            | S-14    | -             | -                  | -          | ●            | ●          | ●     | -     | ●       | ●      | ○      | -             | -             |
|            | T-1 1/4 | ●             | -                  | -          | -            | -          | ●     | ●     | ●       | ●      | ○      | -             | -             |
|            | T-1 3/4 | ●             | ●                  | -          | -            | -          | ●     | ●     | ●       | ●      | ○      | -             | -             |
|            | T-2     | -             | -                  | ●          | -            | -          | ●     | -     | ●       | ●      | ○      | -             | -             |
|            | T-3 1/4 | -             | -                  | -          | ●            | ●          | ●     | ●     | ●       | ○      | ●      | ●             |               |
|            | T-4 1/2 | -             | -                  | -          | -            | ●          | ●     | ●     | ●       | ○      | ●      | ●             |               |

● standard ○ available on request — please contact our sales representative



# Socketed Lamps

CML-IT is the premier manufacturer of socketed lamps. Our design expertise is number one with most automotive manufacturers specifying CML-IT as the OEM. These products comprise a filament lamp or LED inserted into a plastic socket. Some variants have the lamp permanently installed within the socket using welded assembly techniques for ultimate contact reliability. Other types utilise wire wrap for SMD and twist and turn installation.

The listing below contains generic product information.  
Please visit our website at [www.cml-it.com](http://www.cml-it.com) for a detailed listing of product specifications.

CML-IT ist ein führender Hersteller von gesockelten Lampen. Die Kombination zwischen Leuchtmittel und Lampenhalter ermöglicht unseren Kunden, in einer Vielzahl von Applikationen, eine einfache, schnelle und somit wirtschaftliche Installation dieser Produkte.  
Bitte besuchen Sie unsere Website [www.cml-it.com](http://www.cml-it.com) für eine detailliertere Auflistung der Produktspezifikationen.

| Bulb Shape | Bulb Type |      | Approximate diameter |      | Voltage range (V) | Light Output Range (Lm) | Light Output Range (MSCP) | Cobured silicon caps available | PCB Twist Lock Single Contact | PCB Twist Lock Double Contact | Twist Lock With connector | Twist Lock With connector - Right Angle | Twist Lock With Wire Terminals | Twist Lock Neo-Wedge | Bi-Pin | SMD | Snap In | Other |
|------------|-----------|------|----------------------|------|-------------------|-------------------------|---------------------------|--------------------------------|-------------------------------|-------------------------------|---------------------------|---|--------------------------------|----------------------|--------|-----|---------|-------|
|            | Inch      | mm   | inch                 | mm   |                   |                         |                           |                                |                               |                               |                           |   |                                |                      |        |     |         |       |
|            |           | P21  | 1.04                 | 26.5 | 6 - 24            | 390 - 530               | 31 - 42.1                 | -                              | -                             | -                             | -                         | ●                                       | -                              | -                    | -      | -   | -       | -     |
|            |           |      |                      |      |                   |                         |                           |                                |                               |                               |                           |   |                                |                      |        |     |         |       |
|            | T-1       | T3   | 0.125                | 3    | 5 - 14            | 0.9 - 3.1               | 0.08 - 0.25               | ●                              | -                             | -                             | -                         | -                                       | -                              | ●                    | ●      | ●   | -       | -     |
|            | T-1 1/4   | T4   | 0.166                | 4    | 14                | 3.8 - 6.3               | 0.3 - 0.5                 | ●                              | -                             | -                             | -                         | -                                       | -                              | ●                    | ●      | ●   | ●       | -     |
|            | T-1 1/2   | T5   | 0.197                | 5    | 6 - 28            | 0.8 - 23.5              | 0.06 - 1.87               | ●                              | ●                             | ●                             | -                         | -                                       | ●                              | ●                    | ●      | ●   | -       | -     |
|            | T-1 3/4   | T5.6 | 0.22                 | 5.6  | 24 - 28           | 4 - 13.8                | 0.32 - 1.1                | ●                              | ●                             | ●                             | -                         | -                                       | -                              | -                    | -      | -   | -       | -     |
|            | T-2       | T6   | 0.255                | 6    | 12 - 14           | 5.5 - 37.7              | 0.44 - 3                  | ●                              | -                             | ●                             | -                         | -                                       | -                              | ●                    | -      | -   | -       | -     |
|            | T-2 1/4   | T7   | 0.29                 | 7    | 8 - 12            | 16.3                    | 1.3                       | -                              | -                             | ●                             | -                         | -                                       | -                              | -                    | -      | -   | -       | -     |
|            | T-3 1/4   | T10  | 0.393                | 10   | 6.3 - 28          | 11 - 84                 | 0.65 - 6.7                | -                              | -                             | ●                             | ●                         | -                                       | ●                              | -                    | -      | -   | -       | -     |
|            | T-5       | T15  | 0.6                  | 16   | 6-120             | 75.4 - 310              | 3.2 - 25                  | -                              | -                             | ●                             | -                         | -                                       | -                              | -                    | -      | -   | -       | -     |

● standard ○ available on request — please contact our sales representative







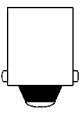
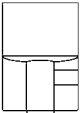
## Sockets

CML-IT a world leader for the manufacture and supply of lamp sockets particularly for the automotive industry. Our sockets are designed and manufactured 'in-house' using precision injection moulding and metal stamping techniques. We specialise in twist and turn sockets using push-in wedge base lamps which are automatically assembled and tested using sophisticated inspection equipment. The listing below contains generic product information.

**Please visit our website at [www.cml-it.com](http://www.cml-it.com) for a detailed listing of product specifications.**

CML-IT ist führend in der Herstellung von Lampenhaltern. Diese Produkte werden besonders bevorzugt in der Automobilindustrie eingesetzt. CML-IT spezialisiert sich auf Steck- und Drehlampenhalter für Glühlampen mit Wedge Base Sockeln, welche automatisch bestückt werden können.

**Bitte besuchen Sie unsere Website [www.cml-it.com](http://www.cml-it.com) für eine detailliertere Auflistung der Produktspezifikationen.**

| Bulb Base Type  | Bulb Type |       | Approximate diameter |      | Voltage range (V) | PCB Twist Lock Single Contact | PCB Twist Lock Double Contact | Twist Lock With connector | Twist Lock With connector - Right Angle | Twist Lock Neo-Wedge | Relampable |
|---|-----------|-------|----------------------|------|-------------------|-------------------------------|-------------------------------|---------------------------|---|----------------------|------------|
|   | Inch      | mm    | inch                 | mm   |                   |                               |                               |                           |   |                      |            |
|  |           | P21   | 1.04                 | 26.5 | 6-24              | -                             | -                             | -                         | ●                                       | -                    | ●          |
|   |           |       |                      |      |                   |                               |                               |                           |   |                      |            |
|  | T1 1/2    | T 5   | 0.197                | 5    | 12-24             | ●                             | ●                             | -                         | -                                       | ●                    | ●          |
|   | T1 3/4    | T 5.6 | 0.22                 | 5.6  | 12-24             | ●                             | ●                             | -                         | -                                       | -                    | ●          |
|   | T 3 1/4   | T 10  | 0.393                | 10   | 12-24             | -                             | ●                             | ●                         | -                                       | ●                    | ●          |
|   | T5        | T 15  | 0.59                 | 15   | 12-24             | ●                             | -                             | -                         | -                                       | -                    | ●          |

● standard ○ available on request - please contact our sales representative





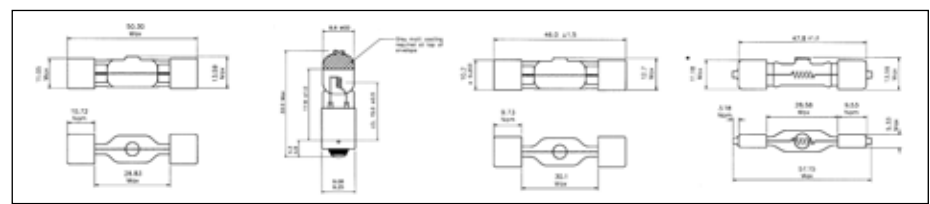
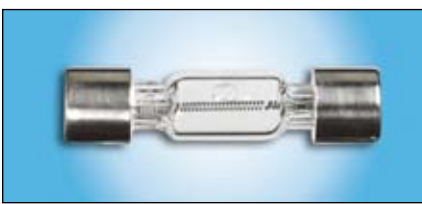
## Aviation Lamps

Vertically integrated design, engineering, manufacturing, and assembly capabilities make CML-IT responsive to the needs of aircraft manufacturers and maintenance facilities around the world. Every aviation lamp we produce is designed to meet or exceed critical requirements for light output and service life. Each design anticipates environmental, electrical, and photometric conditions for aircraft or ground support applications. CML-IT inspection, testing, and statistical documentation set the standard for the industry. The result is lamps that will not only deliver top rated performance and optimum service life; it will also cost less to own and operate. Choose from a broad range of styles and operating characteristics for an equally diverse range of applications. Status indicators, instrumentation lighting, cabin and flight deck lighting, navigation and anti-collision lighting and inspection lighting. The listing below contains generic product information. **Please visit our website at [www.cml-it.com](http://www.cml-it.com) for a detailed listing of product specifications.**

CML-IT ist führend in der Herstellung von Speziallampen für die Luftfahrtindustrie. Alle produzierten Lampen erfüllen eine Vielzahl von kritischen Anforderungsmerkmalen für dieses Anwendungsgebiet und unterliegen ganz besonderen Normen bzw. Freigaben. Sie finden Ihre Anwendungen in Statusindikatoren, Instrumentenbeleuchtungen von Cockpits, Kabinenbeleuchtungen, Tragflächenbeleuchtungen, Navigationsbeleuchtungen, Antikollisionsbeleuchtungen und Inspektionsbeleuchtungen. **Bitte besuchen Sie unsere Website [www.cml-it.com](http://www.cml-it.com) für eine detailliertere Auflistung der Produktspezifikationen.**

### Aviation Halogen Aircraft Lamp

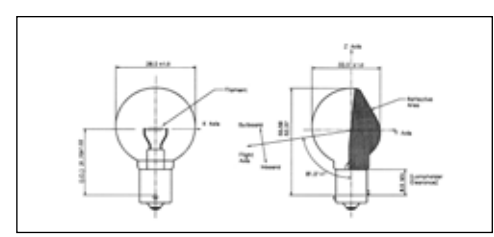
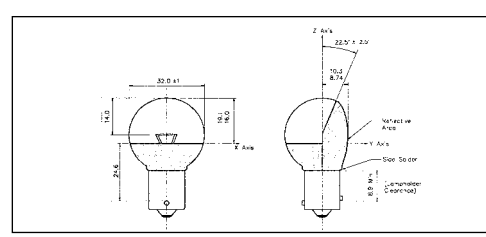
| Volts (V) | Wattage (W) | Light Output |      | Filament shape | Life Hours | Lamp Base    | Part N° |
|-----------|-------------|--------------|------|----------------|------------|--------------|---------|
|           |             | Lm           | Mscp |                |            |              |         |
| 10        | 100         | 1630         | 130  | C-8            | 1000       | end caps     | 1978X   |
| 12        | 10          | 126          | 10   | C-81           | 2000       | bayonet BA9s | 2059    |
| 28        | 50          | 750          | 60   | CC-8           | 1000       | end caps     | 8-A103  |
| 28        | 100         | 1760         | 140  | CC-8           | 1000       | end caps     | 1970X   |



### Aviation Anti-Collision Warning Lamp



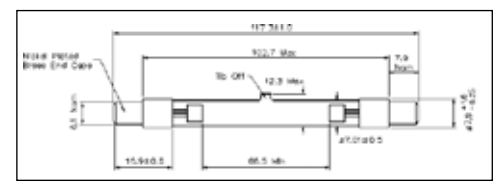
| Volts (V) | Wattage (W) | Filament shape | Life Hours | Lamp Base     | Part N°   |
|-----------|-------------|----------------|------------|---------------|-----------|
| 28        | 21          | CC-6           | 300        | Bayonet BA15s | CM1524    |
| 28        | 26          | CC-6           | 300        | Bayonet BA15s | A-7512-24 |
| 28        | 40          | CC-6           | 300        | Bayonet BA15s | A-4174-24 |



### Aviation Xenon Flashtube

| Max Length mm | Max Length Inches | Rated Life Hrs | Light Output Lm | Wattage (W) | Lamp Base        | Part N°   |
|---------------|-------------------|----------------|-----------------|-------------|------------------|-----------|
| 117           | 4,6               | 2000*          | 95cd/s@32j      | 40          | Special End Caps | 55-0331-3 |

\* Life defined as 9 million flashes at flash rate of 75 flashes per minute =  $(9 \times 10^6) / 75 = 120,000 \text{ min} = 2000 \text{ hours}$ .  
cd/s = candelas per second. Please note the size designation is T2<sup>1/2</sup> (T8).









## Aviation Fluorescent Lamps

Vertically integrated design, engineering, manufacturing, and assembly capabilities make CML-IT responsive to the needs of aircraft manufacturers and maintenance facilities around the world. Every aviation lamp we produce is designed to meet or exceed critical requirements for light output and service life. Each design anticipates environmental, electrical, and photometric conditions for aircraft or ground support applications. CML-IT inspection, testing, and statistical documentation set the standard for the industry. The result is lamps that will not only deliver top rated performance and optimum service life; it will also cost less to own and operate. Choose from a broad range of styles and operating characteristics for an equally diverse range of applications. Status indicators, instrumentation lighting, cabin and flight deck lighting, navigation and anti-collision lighting and inspection lighting. The listing below contains generic product information. **Please visit our website at [www.cml-it.com](http://www.cml-it.com) for a detailed listing of product specifications.**

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### Aviation Fluorescent Lamp

| Max Length Rated    |        | Life Hrs | Light Output Lm | Wattage W | Colour     | Cap         | Fig. N° | Part N°   |
|---------------------|--------|----------|-----------------|-----------|------------|-------------|---------|-----------|
| mm                  | inches |          |                 |           |            |             |         |           |
| <b>T5 (Ø 16mm)</b>  |        |          |                 |           |            |             |         |           |
| 150                 | 6      | 7500     | 145             | 4         | Warm White | G5, Bi-Pin  | 1       | CM5104WW  |
| 150                 | 6      | 7500     | 140             | 4         | Cool White | G5, Bi-Pin  | 1       | CM5104CW  |
| 150                 | 6      | 7500     | 145             | 4         | Warm White | Pinless     | 2       | 5004WW    |
| 150                 | 6      | 7500     | 140             | 4         | Cool White | Pinless     | 2       | 5004CW    |
| 226                 | 9      | 7500     | 290             | 6         | Warm White | G5, Bi-Pin  | 1       | CM5106WW  |
| 226                 | 9      | 7500     | 270             | 6         | Cool White | G5, Bi-Pin  | 1       | CM5106CW  |
| 302                 | 12     | 7500     | 400             | 8         | Warm White | G5, Bi-Pin  | 1       | CM5108WW  |
| 302                 | 12     | 7500     | 380             | 8         | Cool White | G5, Bi-Pin  | 1       | CM5108CW  |
| 302                 | 12     | 7500     | 400             | 8         | Warm White | Pinless     | 2       | 5008WW    |
| 302                 | 12     | 7500     | 380             | 8         | Cool White | Pinless     | 2       | 5008CW    |
| 531                 | 21     | 7500     | 880             | 13        | Warm White | G5, Bi-Pin  | 1       | CM5113WW  |
| 531                 | 21     | 7500     | 860             | 13        | Cool White | G5, Bi-Pin  | 1       | CM5113CW  |
| 531                 | 21     | 7500     | 880             | 13        | Warm White | Pinless     | 2       | 5013WW    |
| 531                 | 21     | 7500     | 860             | 13        | Cool White | Pinless     | 2       | 5013CW    |
| 760                 | 30     | 8000     | 1150            | 18        | Warm White | G5, Bi-Pin  | 1       | 18WT5-WWW |
| 760                 | 30     | 8000     | 1150            | 18        | Cool White | G5, Bi-Pin  | 1       | 18WT5-CW  |
| <b>T8 (Ø 25mm)</b>  |        |          |                 |           |            |             |         |           |
| 909                 | 36     | 14000    | 2200            | 30        | Cool White | G13, Bi-Pin | 1       | F30W133TB |
| <b>T12 (Ø 35mm)</b> |        |          |                 |           |            |             |         |           |
| 984                 | 39     | 9000     | 2800            | 40        | Warm White | G13, Bi-Pin | 1       | F40W1M129 |
| 984                 | 39     | 9000     | 2800            | 40        | Cool White | G13, Bi-Pin | 1       | F40W1M133 |

Fig.1

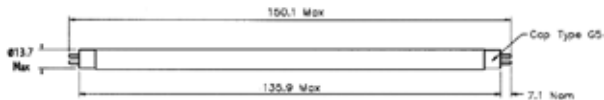
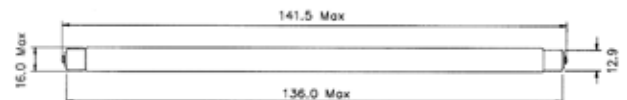


Fig.2





## Xenon Lamps, Sockets

Please visit our website at [www.cml-it.com](http://www.cml-it.com) for a detailed listing of product specifications.

Bitte besuchen Sie unsere Website [www.cml-it.com](http://www.cml-it.com) für eine detailliertere Auflistung der Produktspezifikationen.

| Xenon Lamps |        |     |                      |      | Series number | Voltage range (V) | Light Output Range (Lm) | Light Output Range (MSCP) | Wire Terminal | Flange Base | Groove Base | Screw Base | Bayonet Base | Bi-Pin Base | Wedge Base | Slide Base | BATs | Other Type |
|-------------|--------|-----|----------------------|------|---------------|-------------------|-------------------------|---------------------------|---------------|-------------|-------------|------------|--------------|-------------|------------|------------|------|------------|
| Bulb Shape  | Size   |     | Approximate diameter |      |               |                   |                         |                           |               |             |             |            |              |             |            |            |      |            |
|             | Inch   | mm  | inch                 | mm   |               |                   |                         |                           |               |             |             |            |              |             |            |            |      |            |
|             | T3 1/4 | T10 | 0.4                  | 10.3 | 1260XLF       | 12                | 85                      | 6.75                      | —             | —           | —           | —          | —            | —           | ●          | —          | —    | —          |
|             | T3 1/4 | T10 | 0.4                  | 10.3 | 1503XLF       | 14                | 25                      | 2                         | —             | —           | —           | —          | —            | —           | ●          | —          | —    | —          |
|             | T3 1/4 | T10 | 0.4                  | 10.3 | 501XLF        | 12                | 50                      | 4                         | —             | —           | —           | —          | —            | —           | ●          | —          | —    | —          |

● standard ○ available on request — please contact our sales representative

| Sockets for Xenon Lamps |                |           |     |                      |    | Circuit Thickness (mm) | Voltage range (V) | PCB Twist Lock - Single Contact | PCB Twist Lock - Double contact | Twist Lock - With Connector | Twist Lock - With Connector - Right Angle | Twist Lock Neo-Wedge | Relampable |
|-------------------------|----------------|-----------|-----|----------------------|----|------------------------|-------------------|---------------------------------|---------------------------------|-----------------------------|---|----------------------|------------|
| Bulb Base Type          | Series Numbers | Bulb Type |     | Approximate diameter |    |                        |                   |                                 |                                 |                             |   |                      |            |
|                         |                | Inch      | mm  | inch                 | mm |                        |                   |                                 |                                 |                             |   |                      |            |
|                         | 7121x          | T3 1/4    | T10 | 0.393                | 10 | 1.6 +/- 0.1            | 12-24             | —                               | ●                               | —                           | —   | —                    | ●          |
|                         | 7080x          | T3 1/4    | T10 | 0.393                | 10 | 2.0 +/- 0.1            | 12-24             | —                               | ●                               | —                           | —   | —                    | ●          |

● standard ○ available on request — please contact our sales representative



## ColorRay

Please visit our website at [www.cml-it.com](http://www.cml-it.com) for a detailed listing of product specifications.

Bitte besuchen Sie unsere Website [www.cml-it.com](http://www.cml-it.com) für eine detailliertere Auflistung der Produktspezifikationen.

|  | Series Numbers             | Size          | Voltage input      | Voltage output | Power consumption | with Optic | Color RGB | Color A/W/B |   |
|--|----------------------------|---------------|--------------------|----------------|-------------------|------------|-----------|-------------|---|
|  | DMX COLORDIRECTOR 12V ONE  | CR-CD0 Series | 320 x 230 x 120 mm | 100 - 240 VAC  | 12 VDC            | 60 W       |           |             |   |
|  | DMX COLORDIRECTOR 12V Four |               |                    | 100 - 240 VAC  | 12 VDC            | 500 W      |           |             |   |
|  | DMX COLORDIRECTOR 24V ONE  |               |                    | 100 - 240 VAC  | 24 VDC            | 60 W       |           |             |   |
|  | DMX COLORDIRECTOR 24V Four |               |                    | 100 - 240 VAC  | 24 VDC            | 500 W      |           |             |   |
|  | Flood                      | CR-FL0 Series | 149 x 174 x 66 mm  | 12 VDC         |                   | 9 W        | ●         | ●           |   |
|  |                            |               | 149 x 174 x 66 mm  | 12 VDC         |                   | 9 W        | ●         | ●           | ● |
|  |                            |               | 149 x 174 x 66 mm  | 24 VDC         |                   | 18 W       |           | ●           | ● |
|  |                            |               | 149 x 174 x 66 mm  | 24 VDC         |                   | 18 W       | ●         | ●           | ● |
|  |                            |               | 300 x 174 x 66 mm  | 24 VDC         |                   | 18 W       |           | ●           | ● |
|  |                            |               | 300 x 174 x 66 mm  | 24 VDC         |                   | 18 W       | ●         | ●           | ● |
|  |                            |               | 300 x 174 x 66 mm  | 24 VDC         |                   | 36 W       |           | ●           | ● |
|  |                            |               | 300 x 174 x 66 mm  | 24 VDC         |                   | 36 W       | ●         | ●           | ● |
|  | Linear                     | CR-LI0 Series | 500 x 50 x 40 mm   | 24 VDC         |                   | 18 W       |           | ●           | ● |
|  |                            |               | 500 x 50 x 40 mm   | 24 VDC         |                   | 18 W       | ●         | ●           | ● |
|  |                            |               | 1000 x 50 x 40 mm  | 24 VDC         |                   | 36 W       |           | ●           | ● |
|  |                            |               | 1000 x 50 x 40 mm  | 24 VDC         |                   | 36 W       | ●         | ●           | ● |
|  | Wall Unit Up/Down          | CR-WU Series  | 2280 x 1400 mm     | 12 VDC         |                   | 20 W       | -         | ●           | - |
|  | Submersible                | CR-SU0 Series | Ø 150 x 90 mm      | 12 VDC         |                   | 10 W       | -         | ●           | - |

● standard ○ available on request — please contact our sales representative



## ProVision

Please visit our website at [www.cml-it.com](http://www.cml-it.com) for a detailed listing of product specifications.

Bitte besuchen Sie unsere Website [www.cml-it.com](http://www.cml-it.com) für eine detailliertere Auflistung der Produktspezifikationen.

|  |                        | Series Numbers | Length 18" / 457mm | Length 36" / 914mm | Diameter 0.23" / 5.8mm (non-obtort, flexible) | Diameter 0.4" / 10.5mm (obedient) | Dual-Shaft / Convertible 2 in 1 |
|--|------------------------|----------------|--------------------|--------------------|---|-----------------------------------|---------------------------------|
|  | Scope                  | PV2618         | ●                  | —                  | ●   | —                                 | —                               |
|  | Scope                  | PV2100         | ●                  | —                  | —   | ●                                 | —                               |
|  | Scope and PV2K6BMW kit | PV2618-21      | ●                  | —                  | —   | —                                 | ●                               |
|  | Scope                  | PV2636         | —                  | ●                  | ●   | —                                 | —                               |
|  | Scope                  | PV2300         | —                  | ●                  | —   | ●                                 | —                               |
|  | Scope and PV2K6BMW kit | PV2636-21      | —                  | ●                  | —   | —                                 | ●                               |

| Accessories |                                      | Series Numbers | PV2618 | PV2100 | PV2618-21 | PV2636 | PV2300 | PV2636-21 |
|-------------|--------------------------------------|----------------|--------|--------|-----------|--------|--------|-----------|
|             | Mirror 45°                           | PV2W6          | ●      | —      | —         | ●      | —      | —         |
|             |                                      | PV2W11         | —      | ●      | —         | —      | ●      | —         |
|             | Magnetic Tip                         | PV2M6          | ●      | —      | —         | ●      | —      | —         |
|             |                                      | PV2M11         | —      | ●      | —         | —      | ●      | —         |
|             | ProLite - Halogen Bulb               | PL2100         | ●      | ●      | ●         | ●      | ●      | ●         |
|             | Halogen Bulb Mirror 45°              | PV2K6BW        | ●      | —      | —         | ●      | —      | —         |
|             |                                      | PV2K11BW       | —      | ●      | —         | —      | ●      | —         |
|             | Halogen Bulb Mirror 45° Magnetic Tip | PV2K6BMW       | ●      | —      | —         | ●      | —      | —         |
|             |                                      | PV2K11BMW      | —      | ●      | —         | —      | ●      | —         |

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