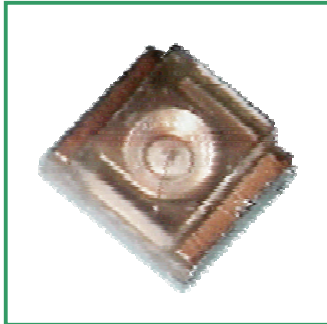
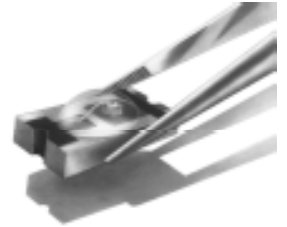




## **High Power Chiplid - EOC - 20 Series**

### **Preliminary Data**

### **Features**

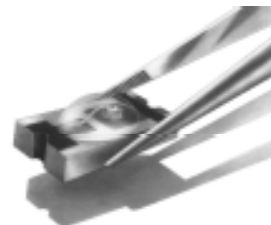
|                                 |                                                                             |
|---------------------------------|-----------------------------------------------------------------------------|
| <b>Directive characteristic</b> | 110° (optional with lens 40°)                                               |
| <b>Size</b>                     | 3.2 (L) x 2.8 (W)                                                           |
| <b>Soldering patterns</b>       | Gold plated                                                                 |
| <b>Technology</b>               | AlInGaP, InGaN                                                              |
| <b>Tape &amp; Reel</b>          | 8 mm blister tape with 2000pcs./reel Ø 180mm<br>or 8000 pcs./reel Ø 330mm   |
| <b>Grouping parameter</b>       | sorted into luminous intensity groups, color groups<br>or color coordinates |
| <b>ESD resistance voltage</b>   | up to 2 kV                                                                  |
| <b>Assembly methods</b>         | Suitable for all SMT assembly methods                                       |
| <b>Soldering methods</b>        | IR reflow soldering and TTW soldering                                       |

### **Applications**

Substitution of incandescent lamps  
Signal and indicators  
Marker lights  
Indoor and outdoor displays  
Backlighting  
Interior and exterior automotive lighting

### **Special features**

The SMT LED elements of the EOC-20 series operate from 50 mA to 200 mA:  
For optimal use of the EOC-20 SMT LEDs please ask for our special assistance regarding the PCB layout to optimise the thermal management.  
Please see the fields of application from the ordering code.  
With an optimal thermal management power dissipation up to 1500 mW can be realised.



## Electro-optical Characteristics

| Type              | Emission colour | $\lambda_D$                   | $I_F$<br>[ mA ] | $I_V$<br>[ mcd ] |      | $\Phi_V$        | 2 $\phi$<br>[ deg. ] |
|-------------------|-----------------|-------------------------------|-----------------|------------------|------|-----------------|----------------------|
|                   |                 | (nm)<br>colour<br>coordinates |                 | min.             | typ. | [ mlm ]<br>typ. |                      |
| EOC-20 UW 50      | white           | 0.32 / 0.33                   | 50              | 200 - 400        |      | 880             | 110                  |
| EOC-20 MW 50      | white           | 0.32 / 0.33                   | 50              | 600 - 820        |      | 1800            | 110                  |
| EOC-20 MB 460 50  | blue            | 460                           | 50              | 100 - 250        |      | 550             | 110                  |
| EOC-20 MB 470 50  | blue            | 470                           | 50              | 125 - 300        |      | 660             | 110                  |
| EOC-20 UG 505 50  | green           | 505                           | 50              | 210 - 500        |      | 1100            | 110                  |
| EOC-20 UG 525 50  | green           | 525                           | 50              | 210 - 500        |      | 1100            | 110                  |
| EOC-20 HYG 50     | green           | 572                           | 50              | 125 - 220        |      | 480             | 110                  |
| EOC-20 HY 50      | yellow          | 590                           | 50              | 260 - 500        |      | 1100            | 110                  |
| EOC-20 SUD 50     | orange          | 605                           | 50              | 260 - 600        |      | 1320            | 110                  |
| EOC-20 HD 50      | orange          | 615                           | 50              | 260 - 600        |      | 1320            | 110                  |
| EOC-20 HSD 50     | red             | 625                           | 50              | 260 - 500        |      | 1100            | 110                  |
| EOC-20 HR 50      | red             | 632                           | 50              | 140 - 280        |      | 610             | 110                  |
| EOC-20 UW 100     | white           | 0.32 / 0.33                   | 100             | 300 - 600        |      | 1320            | 110                  |
| EOC-20 MW 100     | white           | 0.32 / 0.33                   | 100             | 600 - 1250       |      | 2750            | 110                  |
| EOC-20 MB 460 100 | blue            | 460                           | 100             | 100 - 250        |      | 550             | 110                  |
| EOC-20 MB 470 100 | blue            | 470                           | 100             | 125 - 300        |      | 660             | 110                  |
| EOC-20 UG 505 100 | green           | 505                           | 100             | 315 - 750        |      | 1650            | 110                  |
| EOC-20 UG 525 100 | green           | 525                           | 100             | 315 - 750        |      | 1650            | 110                  |
| EOC-20 HYG 100    | green           | 572                           | 100             | 125 - 325        |      | 710             | 110                  |
| EOC-20 HY 100     | yellow          | 590                           | 100             | 400 - 750        |      | 1650            | 110                  |
| EOC-20 SUD 100    | orange          | 605                           | 100             | 400 - 900        |      | 1980            | 110                  |
| EOC-20 HD 100     | orange          | 615                           | 100             | 400 - 900        |      | 1980            | 110                  |
| EOC-20 HSD 100    | red             | 625                           | 100             | 400 - 750        |      | 1650            | 110                  |
| EOC-20 HR 100     | red             | 632                           | 100             | 200 - 425        |      | 930             | 110                  |
| EOC-20 UW 200     | white           | 0.32 / 0.33                   | 200             | 600 - 1200       |      | 2640            | 110                  |
| EOC-20 MW 200     | white           | 0.32 / 0.33                   | 200             | 1200 - 2500      |      | 5500            | 110                  |
| EOC-20 MB 460 200 | blue            | 460                           | 200             | 200 - 500        |      | 1100            | 110                  |
| EOC-20 MB 470 200 | blue            | 470                           | 200             | 250 - 600        |      | 1320            | 110                  |
| EOC-20 UG 505 200 | green           | 505                           | 200             | 630 - 1500       |      | 3300            | 110                  |
| EOC-20 UG 525 200 | green           | 525                           | 200             | 630 - 1500       |      | 3300            | 110                  |
| EOC-20 HYG 200    | green           | 572                           | 200             | 250 - 650        |      | 1430            | 110                  |
| EOC-20 HY 200     | yellow          | 590                           | 200             | 800 - 1500       |      | 3300            | 110                  |
| EOC-20 SUD 200    | orange          | 605                           | 200             | 800 - 1500       |      | 3300            | 110                  |
| EOC-20 HD 200     | orange          | 615                           | 200             | 800 - 1500       |      | 3300            | 110                  |
| EOC-20 HSD 200    | red             | 625                           | 200             | 800 - 1500       |      | 3300            | 110                  |