

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

#### **Preliminary Data**

#### **Features**

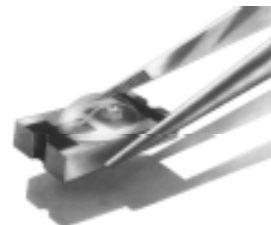
<b>Directive characteristic</b>	110° (optional with lens 40°)
<b>Size</b>	3.2 (L) x 2.8 (W)
<b>Soldering patterns</b>	Gold plated
<b>Technology</b>	AlInGaP, InGaN
<b>Tape &amp; Reel</b>	8 mm blister tape with 2000pcs./reel Ø 180mm or 8000 pcs./reel Ø 330mm
<b>Grouping parameter</b>	sorted into luminous intensity groups, color groups 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	$\lambda_D$	$I_F$ [ mA ]	$I_V$ [ mcd ]		$\Phi_V$	2 $\phi$ [ deg. ]
		(nm) colour coordinates		min.	typ.	[ mlm ] 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