

# Product guide SWIR LEDs

1000 nm – 2300 nm

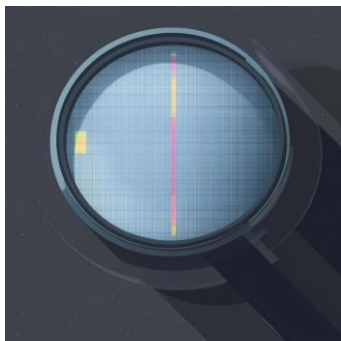
## Civilian Applications



**Food Industry**  
(Moisture detection)



**Food Industry**  
(Detection of foreign objects)

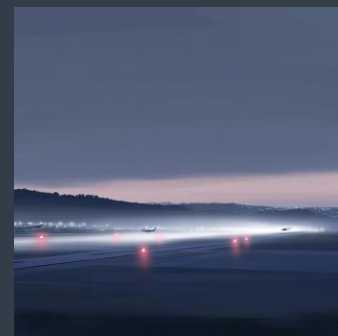


**Industrial applications**  
(Si wafer inspection,  
surface inspection)



**Pharmaceutical**  
(Compound identification)

## Aviation and Defense



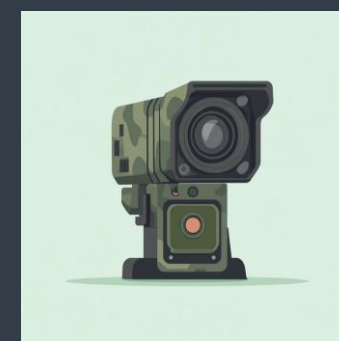
**Airfield beacons**



**Helmet beacons**



**Imaging in low visibility conditions**  
(fog, smoke)



**Light sources for IR imaging**

## Product inspection

*IR light sources in industrial vision systems (for example, linear cameras) highlight material defects on moving objects, enabling real-time quality inspection in manufacturing.*

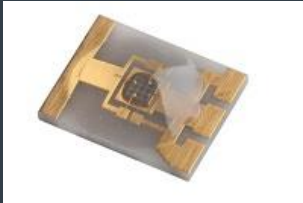
**EPIGAP OSA Products:**

[https://www.epigap-osa.com/datasheet/OIS-150\\_1550n.pdf](https://www.epigap-osa.com/datasheet/OIS-150_1550n.pdf)



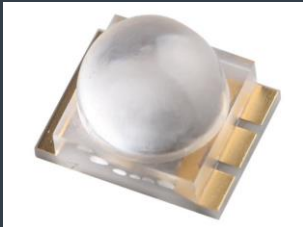
*More success stories from the customers will be added soon...*

High power LED  
With glob top



6.0(L) x 4.7(W) x 1.1(H) mm

High power LED with lens  
Narrow view angle 20°



Epoxy lens (<1650 nm)



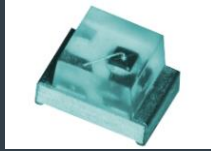
Glass lens (>1720 nm)

6.0(L) x 4.6(W) x 4.3(H) mm

Series	λc (nm)	FWHM (nm)	PN	View angle	Test Current	Output Power	Datasheet:
480	1020	50	OCI-480_1020p	120	350 mA	16 mW/sr	<a href="https://www.epigap-osa.com/datasheet/OCI-480_1020p.pdf">https://www.epigap-osa.com/datasheet/OCI-480_1020p.pdf</a>
480	1040	50	OCI-480_ID1040	120	1000 mA	170 mW/sr	<a href="https://www.epigap-osa.com/datasheet/OCI-480_ID1040.pdf">https://www.epigap-osa.com/datasheet/OCI-480_ID1040.pdf</a>
480	1050	48	OCI-480_1050p	120	350 mA	18 mW/sr	<a href="https://www.epigap-osa.com/datasheet/OCI-480_1050p.pdf">https://www.epigap-osa.com/datasheet/OCI-480_1050p.pdf</a>
480	1140	65	OCI-480_1140p	120	350 mA	13.5 mW/sr	<a href="https://www.epigap-osa.com/datasheet/OCI-480_1140p.pdf">https://www.epigap-osa.com/datasheet/OCI-480_1140p.pdf</a>

Series	λc (nm)	FWHM (nm)	PN	View angle	Test Current	Output Power	Datasheet:
490	1020	20	OCI-490-20_1020p	20	350 mA	115 mW/sr	<a href="https://www.epigap-osa.com/datasheet/OCI-490-20_1020p-XE.pdf">https://www.epigap-osa.com/datasheet/OCI-490-20_1020p-XE.pdf</a>
490	1040	50	OCI-490-20_ID1040	20	1000 mA	1800 mW/sr	<a href="https://www.epigap-osa.com/datasheet/OCI-490-20_ID1040-XE.pdf">https://www.epigap-osa.com/datasheet/OCI-490-20_ID1040-XE.pdf</a>
490	1050	50	OCI-490-20_1050p	20	350 mA	110 mW/sr	<a href="https://www.epigap-osa.com/datasheet/OCI-490-20_1050p-XE.pdf">https://www.epigap-osa.com/datasheet/OCI-490-20_1050p-XE.pdf</a>
490	1060	50	OCI-490-20_ID1060	20	700 mA	1350 mW/sr	<a href="https://www.epigap-osa.com/datasheet/OCI-490-20_ID1060-XE.pdf">https://www.epigap-osa.com/datasheet/OCI-490-20_ID1060-XE.pdf</a>
490	1100	55	OCI-490-20_ID1100	20	1000 mA	1700 mW/sr	<a href="https://www.epigap-osa.com/datasheet/OCI-490-20_ID1100-XE.pdf">https://www.epigap-osa.com/datasheet/OCI-490-20_ID1100-XE.pdf</a>
490	1140	60	OCI-490-20_ID1140	20	1000 mA	1100 mW/sr	<a href="https://www.epigap-osa.com/datasheet/OCI-490-20_ID1140-XE.pdf">https://www.epigap-osa.com/datasheet/OCI-490-20_ID1140-XE.pdf</a>
490	1200	70	OCI-490-20_ID1200	20	1000 mA	430 mW/sr	<a href="https://www.epigap-osa.com/datasheet/OCI-490-20_ID1200-XE.pdf">https://www.epigap-osa.com/datasheet/OCI-490-20_ID1200-XE.pdf</a>
490	1300	85	OCI-490-20_ID1300	20	1000 mA	319 mW/sr	<a href="https://www.epigap-osa.com/datasheet/OCI-490-20_ID1300-XE.pdf">https://www.epigap-osa.com/datasheet/OCI-490-20_ID1300-XE.pdf</a>
490	1450	140	OCI-490-20_ID1450	20	1000 mA	211 mW/sr	<a href="https://www.epigap-osa.com/datasheet/OCI-490-20_ID1450-XE.pdf">https://www.epigap-osa.com/datasheet/OCI-490-20_ID1450-XE.pdf</a>
490	1550	110	OCI-490-20_ID1550	20	1000 mA	160 mW/sr	<a href="https://www.epigap-osa.com/datasheet/OCI-490-20_ID1550-XE.pdf">https://www.epigap-osa.com/datasheet/OCI-490-20_ID1550-XE.pdf</a>
490	1650	150	OCI-490-20_ID1650	20	1000 mA	120 mW/sr	<a href="https://www.epigap-osa.com/datasheet/OCI-490-20_ID1650-XE.pdf">https://www.epigap-osa.com/datasheet/OCI-490-20_ID1650-XE.pdf</a>
490	1720	130	OCI-490-20_ID1720	20	1000 mA	40 mW	<a href="https://www.epigap-osa.com/datasheet/OCI-490-20_ID1720-XG.pdf">https://www.epigap-osa.com/datasheet/OCI-490-20_ID1720-XG.pdf</a>
490	1900	130	OCI-490-20_ID1900	20	1000 mA	41 mW	<a href="https://www.epigap-osa.com/datasheet/OCI-490-20_ID1900-XG.pdf">https://www.epigap-osa.com/datasheet/OCI-490-20_ID1900-XG.pdf</a>
490	2100	130	OCI-490-20_ID2100	20	1000 mA	9.5 mW	<a href="https://www.epigap-osa.com/datasheet/OCI-490-20_ID2100-XG.pdf">https://www.epigap-osa.com/datasheet/OCI-490-20_ID2100-XG.pdf</a>
490	2200	150	OCI-490-20_ID2200	20	1000 mA	8.7 mW	<a href="https://www.epigap-osa.com/datasheet/OCI-490-20_ID2200-XG.pdf">https://www.epigap-osa.com/datasheet/OCI-490-20_ID2200-XG.pdf</a>
490	2300		OCI-490-20_ID2300	20	1000 mA	3.2 mW	<a href="https://www.epigap-osa.com/datasheet/OCI-490-20_ID2300-XG.pdf">https://www.epigap-osa.com/datasheet/OCI-490-20_ID2300-XG.pdf</a>

1.9(L) x 1.2(W) x 1.2(H) mm



Compact LED

Series	$\lambda_c$ (nm)	FWHM (nm)	PN	View angle	Test Current	Output Power	Datasheet:
170	1030	38	OIS-170_1020p	120	50 mA	2 mW	<a href="https://www.epigap-osa.com/datasheet/OIS-170_1020p.pdf">https://www.epigap-osa.com/datasheet/OIS-170_1020p.pdf</a>
170	1050	60	OIS-170_1050p	120	50 mA	2 mW	<a href="https://www.epigap-osa.com/datasheet/OIS-170_1050p.pdf">https://www.epigap-osa.com/datasheet/OIS-170_1050p.pdf</a>

3.2(L) x 1.6(W) x 1.2(H) mm



Standard LED

Series	$\lambda_c$ (nm)	FWHM (nm)	PN	View angle	Test Current	Output Power	Datasheet:
150	1020	40	OIS-150_1020	120	50 mA	2 mW/sr	<a href="https://www.epigap-osa.com/datasheet/OIS-150_1020.pdf">https://www.epigap-osa.com/datasheet/OIS-150_1020.pdf</a>
150	1040	45	OLS-150_IT1040	120	50 mA	7.1 mW/sr	<a href="https://www.epigap-osa.com/datasheet/OIS-150_IT1040.pdf">https://www.epigap-osa.com/datasheet/OIS-150_IT1040.pdf</a>
150	1050	45	OIS-150_1050	120	50 mA	2 mW/sr	<a href="https://www.epigap-osa.com/datasheet/OIS-150_1050.pdf">https://www.epigap-osa.com/datasheet/OIS-150_1050.pdf</a>
150	1060	45	OIS-150_IT1060	120	50 mA	7.1 mW/sr	<a href="https://www.epigap-osa.com/datasheet/OIS-150_IT1060.pdf">https://www.epigap-osa.com/datasheet/OIS-150_IT1060.pdf</a>
150	1200	70	OIS-150_1200n	120	50 mA	1.5 mW/sr	<a href="https://www.epigap-osa.com/datasheet/OIS-150_1200n.pdf">https://www.epigap-osa.com/datasheet/OIS-150_1200n.pdf</a>
150	1300	75	OIS-150_1300n	120	50 mA	2.5 mW/sr	<a href="https://www.epigap-osa.com/datasheet/OIS-150_1300n.pdf">https://www.epigap-osa.com/datasheet/OIS-150_1300n.pdf</a>
150	1450	150	OIS-150_1450n	120	50 mA	0.6 mW/sr	<a href="https://www.epigap-osa.com/datasheet/OIS-150_1450n.pdf">https://www.epigap-osa.com/datasheet/OIS-150_1450n.pdf</a>
150	1550	110	OIS-150_1550n	120	50 mA	0.45 mW/sr	<a href="https://www.epigap-osa.com/datasheet/OIS-150_1550n.pdf">https://www.epigap-osa.com/datasheet/OIS-150_1550n.pdf</a>

3.2(L) x 1.6(W) x 1.9(H) mm



LED with lens

Series	$\lambda_c$ (nm)	FWHM (nm)	PN	View angle	Test Current	Output Power	Datasheet:
330	1020	40	OIS-330_1020p	40	50 mA	9.5 mW/sr	<a href="https://www.epigap-osa.com/datasheet/OIS-330_1020p.pdf">https://www.epigap-osa.com/datasheet/OIS-330_1020p.pdf</a>
330	1040	45	OIS-330 IT1040	40	50 mA	45 mW/sr	<a href="https://www.epigap-osa.com/datasheet/OIS-330_IT1040.pdf">https://www.epigap-osa.com/datasheet/OIS-330_IT1040.pdf</a>
330	1050	45	OIS-330_1050p	40	50 mA	7.2 mW/sr	<a href="https://www.epigap-osa.com/datasheet/OIS-330_1050p.pdf">https://www.epigap-osa.com/datasheet/OIS-330_1050p.pdf</a>
330	1060	45	OIS-330 IT1060	40	50 mA	45 mW/sr	<a href="https://www.epigap-osa.com/datasheet/OIS-330_IT1060.pdf">https://www.epigap-osa.com/datasheet/OIS-330_IT1060.pdf</a>
330	1200	70	OIS-330_1200n	40	50 mA	15 mW/sr	<a href="https://www.epigap-osa.com/datasheet/OIS-330_1200n.pdf">https://www.epigap-osa.com/datasheet/OIS-330_1200n.pdf</a>
330	1300	75	OIS-330_1300n	40	50 mA	14.5 mW/sr	<a href="https://www.epigap-osa.com/datasheet/OIS-330_1300n.pdf">https://www.epigap-osa.com/datasheet/OIS-330_1300n.pdf</a>
330	1450	150	OIS-330_1450n	40	50 mA	6.5 mW/sr	<a href="https://www.epigap-osa.com/datasheet/OIS-330_1450n.pdf">https://www.epigap-osa.com/datasheet/OIS-330_1450n.pdf</a>
330	1550	110	OIS-330_1550n	40	50 mA	2.24 mW/sr	<a href="https://www.epigap-osa.com/datasheet/OIS-330_1550n.pdf">https://www.epigap-osa.com/datasheet/OIS-330_1550n.pdf</a>

## 5mm THT LEDs



Case	$\lambda_c$ (nm)	FWHM (nm)	PN	View angle	Test Current	Output Power	Datasheet:
5mm	1020	50	<b>EOLD-1020-525</b>	20	100 mA	20 mW	<a href="https://www.epigap-osa.com/datasheet/EOLD-1020-525.pdf">https://www.epigap-osa.com/datasheet/EOLD-1020-525.pdf</a>
5mm	1050	50	<b>EOLD-1050-525</b>	20	100 mA	25 mW	<a href="https://www.epigap-osa.com/datasheet/EOLD-1050-525.pdf">https://www.epigap-osa.com/datasheet/EOLD-1050-525.pdf</a>
5mm	1060	40	<b>EOLD-1060-525</b>	20	100 mA	25 mW	<a href="https://www.epigap-osa.com/datasheet/EOLD-1060-525.pdf">https://www.epigap-osa.com/datasheet/EOLD-1060-525.pdf</a>
5mm	1070	38	<b>EOLD-1070-535</b>	35	100 mA	45 mW	<a href="https://www.epigap-osa.com/datasheet/EOLD-1070-535.pdf">https://www.epigap-osa.com/datasheet/EOLD-1070-535.pdf</a>
5mm	1200	120	<b>EOLD-1200-525</b>	20	100 mA	5 mW	<a href="https://www.epigap-osa.com/datasheet/EOLD-1200-525.pdf">https://www.epigap-osa.com/datasheet/EOLD-1200-525.pdf</a>
5mm	1300	95	<b>EOLD-1300-525</b>	25	100 mA	8.5 mW	<a href="https://www.epigap-osa.com/datasheet/EOLD-1300-525.pdf">https://www.epigap-osa.com/datasheet/EOLD-1300-525.pdf</a>
5mm	1550	120	<b>EOLD-1550-525</b>	15	100 mA	3.3 mW	<a href="https://www.epigap-osa.com/datasheet/EOLD-1550-525.pdf">https://www.epigap-osa.com/datasheet/EOLD-1550-525.pdf</a>
5mm	1650	100	<b>EOLD-1650-525</b>	45	100 mA	5.3 mW	<a href="https://www.epigap-osa.com/datasheet/EOLD-1650-525.pdf">https://www.epigap-osa.com/datasheet/EOLD-1650-525.pdf</a>

## TO-46



Case	$\lambda_c$ (nm)	FWHM (nm)	PN	View angle	Test Current	Output Power	Datasheet:
TO-46	1050	100	<b>EOLD-1050-095</b>	40	100 mA	19 mW	<a href="https://www.epigap-osa.com/datasheet/EOLD-1050-095.pdf">https://www.epigap-osa.com/datasheet/EOLD-1050-095.pdf</a>
TO-46	1200	70	<b>EOLD-1200-095</b>	50	100 mA	6 mW	<a href="https://www.epigap-osa.com/datasheet/EOLD-1200-095.pdf">https://www.epigap-osa.com/datasheet/EOLD-1200-095.pdf</a>
TO-46	1300	85	<b>EOLD-1300-095</b>	50	100 mA	6 mW	<a href="https://www.epigap-osa.com/datasheet/EOLD-1300-095.pdf">https://www.epigap-osa.com/datasheet/EOLD-1300-095.pdf</a>
TO-46	1720	130	<b>EOLD-1720-095</b>	50	20 mA	1 mW	<a href="https://www.epigap-osa.com/datasheet/EOLD-1720-095.pdf">https://www.epigap-osa.com/datasheet/EOLD-1720-095.pdf</a>

## TO-46 with lens



Case	Lens	$\lambda_c$ (nm)	FWHM (nm)	PN	View angle	Test Current	Output Power	Datasheet:
TO-46	with lens	1050	100	<b>EOLD-1050-015</b>	6	100 mA	8 mW	<a href="https://www.epigap-osa.com/datasheet/EOLD-1050-015.pdf">https://www.epigap-osa.com/datasheet/EOLD-1050-015.pdf</a>
TO-46	with lens	1060	80	<b>EOLD-1060-015</b>	6	100 mA	8 mW	<a href="https://www.epigap-osa.com/datasheet/EOLD-1060-015.pdf">https://www.epigap-osa.com/datasheet/EOLD-1060-015.pdf</a>
TO-46	with lens	1200	70	<b>EOLD-1200-015</b>	6	100 mA	7 mW	<a href="https://www.epigap-osa.com/datasheet/EOLD-1200-015.pdf">https://www.epigap-osa.com/datasheet/EOLD-1200-015.pdf</a>
TO-46	with lens	1300	85	<b>EOLD-1300-015</b>	6	100 mA	8 mW	<a href="https://www.epigap-osa.com/datasheet/EOLD-1300-015.pdf">https://www.epigap-osa.com/datasheet/EOLD-1300-015.pdf</a>
TO-46	with lens	1450	150	<b>EOLD-1450-015</b>	6	20 mA	1.5 mW	<a href="https://www.epigap-osa.com/datasheet/EOLD-1450-015.pdf">https://www.epigap-osa.com/datasheet/EOLD-1450-015.pdf</a>
TO-46	with lens	1650	100	<b>EOLD-1650-015</b>	6	100 mA	4 mW	<a href="https://www.epigap-osa.com/datasheet/EOLD-1650-015.pdf">https://www.epigap-osa.com/datasheet/EOLD-1650-015.pdf</a>
TO-46	with lens	1720	130	<b>EOLD-1720-015</b>	6	100 mA	4 mW	<a href="https://www.epigap-osa.com/datasheet/EOLD-1720-015.pdf">https://www.epigap-osa.com/datasheet/EOLD-1720-015.pdf</a>



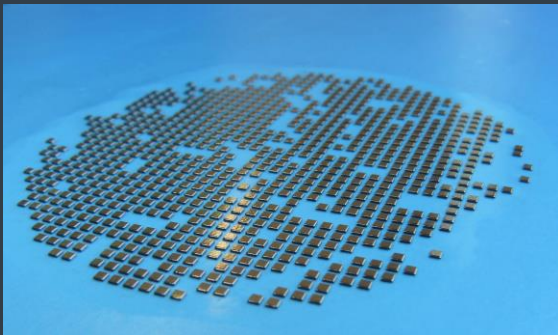
## Small die



350 – 365 μm

Material	λc (nm)	Size	PN	Test Current	Voltage (V)	Output Power	Datasheet:	Polarity
GaAs	1020	365 μm	<b>EOLC-1020-17</b>	20 mA	1.25	3 mW	<a href="https://www.epigap-osa.de/wp-content/uploads/2022/08/EOLC-1020-17.pdf">https://www.epigap-osa.de/wp-content/uploads/2022/08/EOLC-1020-17.pdf</a>	P-up
GaAs	1040	350 μm	<b>EOLC-1040-27</b>	20 mA	1.25	5 mW	<a href="http://epigap.osa.lighting/wp-content/uploads/2022/04/EOLC-1040-27.pdf">http://epigap.osa.lighting/wp-content/uploads/2022/04/EOLC-1040-27.pdf</a>	N-up
GaAs	1050	365 μm	<b>EOLC-1050-17-1</b>	50 mA	1.2	4.5 mW	<a href="https://www.epigap-osa.de/wp-content/uploads/2022/08/EOLC-1050-17-1.pdf">https://www.epigap-osa.de/wp-content/uploads/2022/08/EOLC-1050-17-1.pdf</a>	P-up
GaAs	1060	365 μm	<b>EOLC-1060-17-1</b>	50 mA	1.2	4 mW	<a href="https://www.epigap-osa.de/wp-content/uploads/2022/08/EOLC-1060-17-1.pdf">https://www.epigap-osa.de/wp-content/uploads/2022/08/EOLC-1060-17-1.pdf</a>	P-up
InGaAs	1070	350 μm	<b>EOLC-1070-25</b>	50 mA	1.28	27 mW	<a href="http://epigap.osa.lighting/wp-content/uploads/2022/04/EOLC-1070-25.pdf">http://epigap.osa.lighting/wp-content/uploads/2022/04/EOLC-1070-25.pdf</a>	N-up
InGaAs	1140	365 μm	<b>EOLC-1140-17</b>	50 mA	1.1	3.5 mW	<a href="https://www.epigap-osa.de/wp-content/uploads/2022/08/EOLC-1140-17.pdf">https://www.epigap-osa.de/wp-content/uploads/2022/08/EOLC-1140-17.pdf</a>	P-up
InGaAs	1200	350 μm	<b>EOLC-1200-27</b>	50 mA	1.10	9.5 mW	<a href="http://epigap.osa.lighting/wp-content/uploads/2022/04/EOLC-1200-27.pdf">http://epigap.osa.lighting/wp-content/uploads/2022/04/EOLC-1200-27.pdf</a>	N-Up
InGaAs	1300	350 μm	<b>EOLC-1300-27</b>	50 mA	1.00	14 mW	<a href="http://epigap.osa.lighting/wp-content/uploads/2022/04/EOLC-1300-27.pdf">http://epigap.osa.lighting/wp-content/uploads/2022/04/EOLC-1300-27.pdf</a>	N-Up
InGaAs	1450	350 μm	<b>EOLC-1460-27</b>	20 mA	0.91	3.8 mW	<a href="http://epigap.osa.lighting/wp-content/uploads/2022/04/EOLC-1460-27.pdf">http://epigap.osa.lighting/wp-content/uploads/2022/04/EOLC-1460-27.pdf</a>	N-Up
InGaAs	1550	350 μm	<b>EOLC-1550-27</b>	50 mA	0.96	5 mW	<a href="http://epigap.osa.lighting/wp-content/uploads/2022/04/EOLC-1550-27.pdf">http://epigap.osa.lighting/wp-content/uploads/2022/04/EOLC-1550-27.pdf</a>	N-Up
InGaAs	1650	350 μm	<b>EOLC-1650-27</b>	20 mA	0.85	1.9 mW	<a href="http://epigap.osa.lighting/wp-content/uploads/2022/04/EOLC-1650-27.pdf">http://epigap.osa.lighting/wp-content/uploads/2022/04/EOLC-1650-27.pdf</a>	N-Up
InGaAs	1720	350 μm	<b>EOLC-1720-27</b>	20 mA	0.80	1.8 mW	<a href="http://epigap.osa.lighting/wp-content/uploads/2022/04/EOLC-1720-27.pdf">http://epigap.osa.lighting/wp-content/uploads/2022/04/EOLC-1720-27.pdf</a>	N-Up

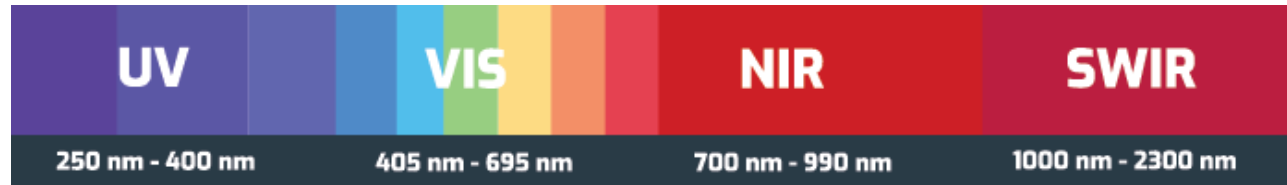
## Large die



960 – 1080 μm

Material	λc (nm)	Size	PN	Test Current	Voltage (V)	Output Power	Datasheet:	Polarity
GaAs	1020	960 μm	<b>EOLC-1020-11</b>	50 mA	1.1	5 mW	<a href="https://www.epigap-osa.de/wp-content/uploads/2022/08/EOLC-1020-11.pdf">https://www.epigap-osa.de/wp-content/uploads/2022/08/EOLC-1020-11.pdf</a>	P-up
GaAs	1050	960 μm	<b>EOLC-1050-11</b>	50 mA	1.1	4 mW	<a href="https://www.epigap-osa.de/wp-content/uploads/2022/08/EOLC-1050-11.pdf">https://www.epigap-osa.de/wp-content/uploads/2022/08/EOLC-1050-11.pdf</a>	P-up
GaAs	1060	960 μm	<b>EOLC-1060-11</b>	50 mA	1.1	3.5 mW	Coming soon...	P-up
InGaAs	1140	960 μm	<b>EOLC-1140-11</b>	50 mA	1.2	2.7 mW	<a href="https://www.epigap-osa.de/wp-content/uploads/2022/08/EOLC-1140-11.pdf">https://www.epigap-osa.de/wp-content/uploads/2022/08/EOLC-1140-11.pdf</a>	P-up
InGaAs	1200	1080 μm	<b>EOLC-1200-21</b>	1000 mA	1.33	110 mW	<a href="http://epigap.osa.lighting/wp-content/uploads/2022/04/EOLC-1200-21.pdf">http://epigap.osa.lighting/wp-content/uploads/2022/04/EOLC-1200-21.pdf</a>	N-Up
InGaAs	1300	1080 μm	<b>EOLC-1300-21</b>	1000 mA	1.28	85 mW	<a href="http://epigap.osa.lighting/wp-content/uploads/2022/04/EOLC-1300-21.pdf">http://epigap.osa.lighting/wp-content/uploads/2022/04/EOLC-1300-21.pdf</a>	N-Up
InGaAs	1450	1080 μm	<b>EOLC-1450-21</b>	1000 mA	1.00	50 mW	<a href="http://epigap.osa.lighting/wp-content/uploads/2022/04/EOLC-1450-21.pdf">http://epigap.osa.lighting/wp-content/uploads/2022/04/EOLC-1450-21.pdf</a>	N-Up
InGaAs	1550	1080 μm	<b>EOLC-1550-21</b>	1000 mA	1.00	50 mW	<a href="http://epigap.osa.lighting/wp-content/uploads/2022/04/EOLC-1550-21.pdf">http://epigap.osa.lighting/wp-content/uploads/2022/04/EOLC-1550-21.pdf</a>	N-Up
InGaAs	1650	1080 μm	<b>EOLC-1650-21</b>	1000 mA	1.00	50 mW	<a href="http://epigap.osa.lighting/wp-content/uploads/2022/04/EOLC-1650-21.pdf">http://epigap.osa.lighting/wp-content/uploads/2022/04/EOLC-1650-21.pdf</a>	N-up
InGaAs	1720	1080 μm	<b>EOLC-1720-21</b>	20 mA	0.67	3 mW	<a href="http://epigap.osa.lighting/wp-content/uploads/2022/04/EOLC-1720-21.pdf">http://epigap.osa.lighting/wp-content/uploads/2022/04/EOLC-1720-21.pdf</a>	N-Up

## EPIGAP OSA has a broad portfolio of IR and SWIR LEDs



### Unique capability of EPIGAP-OSA:

- Flexibility on SMD forms and lenses
- Rapid prototyping
- Exact binning and pre-selection (*Output power, Wavelength, View Angle*)
- Long-Term Stability of performance and supply availability
- Multi-Chip COB assemblies

**EPIGAP-OSA is constantly developing new products on its own and in cooperation academic and industrial partners.**

**NEW in 2024: extension of the portfolio to 2300 nm**

### Advantages of OCI-490:

Wide portfolio of wavelengths from UV to SWIR allows quick prototyping and design of products tailored to your specific application. EPIGAP OSA can also offer a unique service of exact binning of the devices according to brightness, wavelength or other parameters.

Glass and epoxy lenses with narrow view angle enable exact delivery of the light. Innovative manufacturing enables optimisation of the divergence angle upon customer request.

- **Enhanced Visibility:** SWIR LEDs penetrate dust, fog, and smoke, ideal for clear imaging in challenging conditions.
- **Material Detection:** SWIR LEDs reveal unique material characteristics, improving sorting and quality control.
- **Energy Efficiency:** High-power SWIR LEDs deliver strong illumination with low heat output, saving energy.
- **Non-Intrusive Imaging:** Invisible to the eye, SWIR LEDs enable discreet biometric and surveillance imaging.
- **Reliability in Harsh Conditions:** SWIR LEDs perform consistently in extreme environments like heat, humidity, and vibration.
- **Long Lifespan:** SWIR LEDs offer extended life, reducing maintenance and replacement costs over time.