

Preliminary Product Specification

CSR65012TES

22°

InGaAs Photodiode

- * InGaAs PIN Photodiode for general purpose
- * Mountable in row with 5mm distance
- * 500μm round active area, perfect suitable for optical fiber
- * Mechanically and technically matched to the CQR66 LED series



I_{Light}	Light Current	0,9	0,95		A/W	$@1310nm ; Vr=5V$
I_{Light}	Light Current	0,95	1		A/W	$@1550nm ; Vr=5V$
I_{CEO}	Collector Dark Current			1	nA	$Ee = 0 \text{ mW/cm}^2 ; Vr=5V$
$V_{(BR)ECO}$	Emitter Collector Breakdown Voltage	5			V	$Ic = 100\mu A ; H = 0\text{mW/cm}^2$
V_{CEsat}	Collector-Emitter Saturation Voltage			0,3	V	$Ib = 100\mu A Ic = 2mA$
λ_{peak}	Wavelength of Peak Sensitivity		1550		nm	max. sensitivity
$\lambda_{0,5}$	Range of Spectral Bandwidth	850		1700	nm	$I = 10\% \text{, typical}$
$2\Phi_{0,5}$	Full Response Angle		22	25	deg.	$\Phi E = 50\%$
β	Current Gain	900		1400		$Vce = 5 \text{ V} ; Ic = 2mA$
A	Active Area		0,196		mm ²	
C_J	Junction Capacity			40	pF	$VR = 5V ; f = 1\text{Mhz}; Ee = 0\text{mW/cm}^2$
$T_{Operating}$	Operating Temperature	-40		85	°C	
$T_{Storage}$	Storage Temperature	-40		100	°C	
$T_{Soldering}$	Soldering Temperature			240	°C	Iron Soldering; 5mm from case @ max 5 sec.
R_{thJA}	Thermal Resistance		450		K/W	
P_{tot}	Total Power Dissipation				mW	$T_{amb} 25^\circ\text{C}$

Order informations:

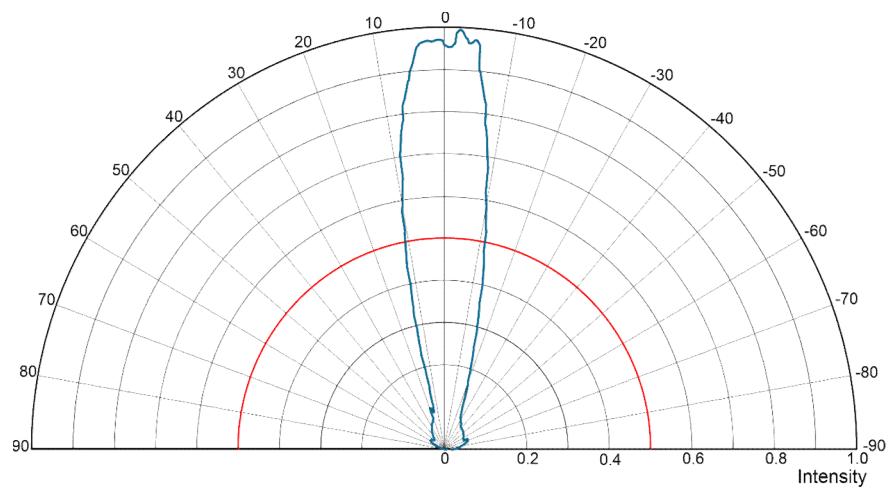
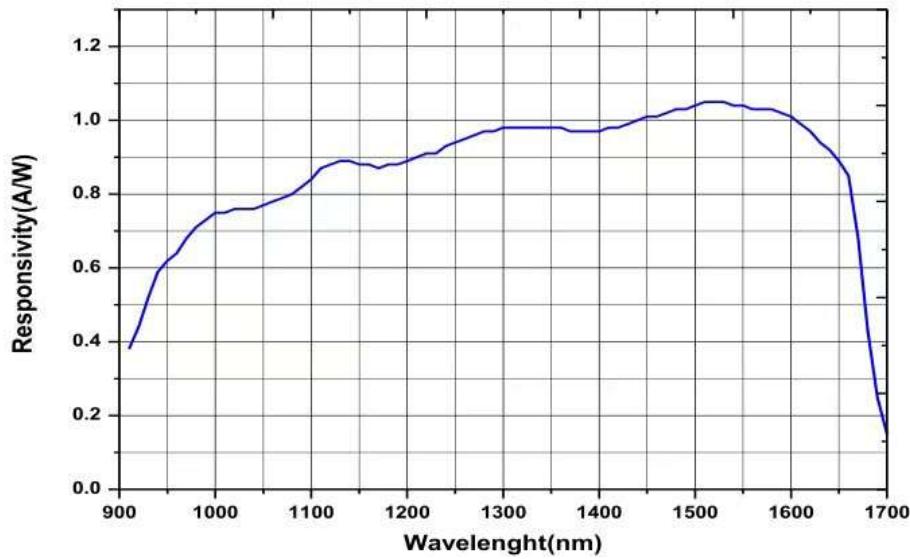
InGaAs Photodiode

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Bulk (1000pcs./bag)

Pls. Contact us for more technical detail information !

CREATIVE LED GMBH reserves the right to make changes at any time in order to improve design and to supply the best product possible, contact us for latest device specification sheets before using.

Relative Responsivity Angle:@ $T_{\text{ambient}} = 25^{\circ}\text{C}$ **Relative Sensitiviy vs. Wavelength:**

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Mechanical Drawing: