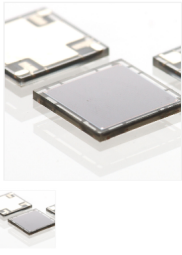


## C-Series Family



Note : Pas noté

[Poser une question sur ce produit](#)

Fournisseur : [SENSL](#)

### C-Series Family

#### Low Noise, Fast, Blue-Sensitive Silicon Photomultipliers

SensL's C-Series sensors feature industry-leading low dark count rates of 30kHz/mm<sup>2</sup> typical, in combination with exceptional breakdown voltage uniformity of ±250mV. The high PDE extends far into the blue part of the spectrum using a high-volume, P-on-N silicon process. C-Series is available in 1mm, 3mm and 6mm sensor sizes and a variety of formats, including a flexible SMT package that is compatible with industry standard, lead-free, reflow soldering processes. C-Series also feature SensL's unique fast output.

#### Key Features

- Ultra-low dark count
- High PDE
- High uniformity
- MLP Package

### Description du produit

- ✓ Low-cost, high-performance product alternative to PMTs for a wide range of applications.
- ✓ Exceptional breakdown voltage uniformity of ±250mV over all C-Series products
- ✓ >40% PDE at 420nm, and extended sensitivity to 300nm for improved UV sensitivity
- ✓ Ultra-fast rise times of 300ps with 600ps pulse width from SensL's unique "fast output" terminal.
- ✓ Ultra-low dark count rates of 30kHz/mm<sup>2</sup> even at -5V overvoltage
- ✓ Temperature stability of 21.5mV/°C, negating the need for active voltage control
- ✓ Bias voltage of <math>+30V</math>
- ✓ Available in either a reflow solder compatible MLP package, TO-18 can, or ceramic, through-pin package with epoxy fill
- ✓ 1mm, 3mm, and 6mm sensor sizes
- ✓ Evaluation board with either SMA connectors or pins, for easy evaluation, are available

#### Specification Summary

Please refer to the C-Series Datasheet for a complete list of features and technical details.

Parameter	Min.	Typ.	Max.	Units	Notes
Breakdown Voltage (Vbr)	24.2		24.7	V	
Recommended overvoltage (Voltage above Vbr)	1		5	V	
Spectral Range	300		800	nm	
Peak Wavelength		420		nm	
PDE (Photon Detection Efficiency)	47			%	50um microcell @ Vbr + 5.0V, at peak wavelength
Gain (anode to cathode readout)		$6 \times 10^4$			50um microcell @ Vbr + 2.5V
Dark Count Rate	30	96		kHz/mm <sup>2</sup>	@ Vbr + 2.5V
Temperature dependence of Vbr		21.5		mV/°C	

Datasheet C Series : [.pdf](#)

Manuel Utilisateur C Series : [.pdf](#)