


SiTek®
ELECTRO OPTICS

Data sheet

Part number: S2-0420
Description: 2L20_SU9_SPC02-A

Active area: 20 x 20 mm²
Chip area: 24,0 x 24,0 mm²

Characteristics	Min.	Typ.	Max.	Unit
Position non-linearity		0,3	0,8	% (±)
Bias voltage (reverse)		15		V
Leakage current of PSD		200	2000	nA
Responsivity		63		V/mW
Transimpedance	9,99*10 ⁴	10,0*10 ⁴	10,01*10 ⁴	V/A
Sum and diff amplification	0,999	1	1,001	
Output voltage			±12	V
Output noise		3		mVp-p
Bandwidth of SPC		200		kHz
Slew rate	8	13		V/μs
Supply current		12	23	mA

Absolute maximum ratings

Power supply voltage	±18	V
Output short-circuit time	Continuous	
Operating temperature	70	°C
Storage temperature	100	°C

Test conditions: Room temperature 23 °C, Power supply voltage ±15V, Light source wavelength 940 nm. Position non-linearity is valid within 80 % of the detector length.

Package: 16-pin ceramic substrate, 38,0 x 34,0 mm², with protective window.

For further information about PSD specific parameters see specification for S2-0002 2L20 _SU9.

Registration no.	Part no.	Written by:	Date.
S2-0420-D_B	S2-0420	Anders Lundgren	2017-08-22

Information in this data sheet is believed to be reliable. However, no responsibility is assumed for possible inaccuracies or omissions.