

Data sheet

1L5_SUx_SPC01

Active area: 5 x 1 mm²
Chip area: 7,2 x 2,0 mm²

Characteristics	Min.	Typ.	Max.	Unit
Position non-linearity		0,1	0,2	% (±)
Bias voltage (reverse)		15		V
Leakage current of PSD		4	20	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		400		kHz
Slew rate	8	13		V/μs
Supply current		12	23	mA

Absolute maximum ratings

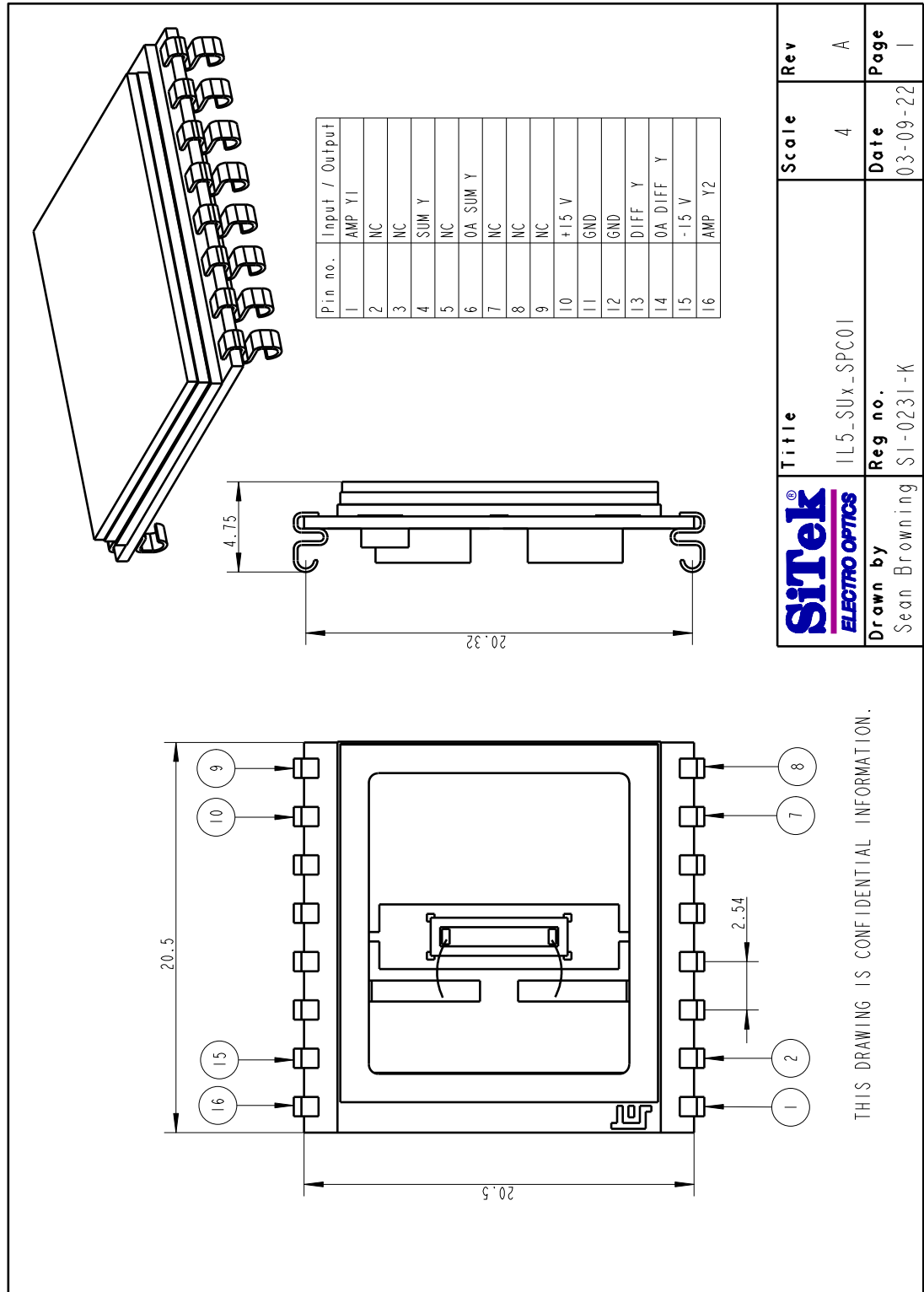
Power supply voltage	±18	V
Output short-circuit time	Continuous	
Operating temperature	70	°C
Storage temperature	100	°C

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

Package: 16-pin ceramic substrate, 20,5 x 20,5 mm², with protective
window.

For further information about PSD specific parameters see specification for S1-0003 1L5_CP2.

Registration no.	Part no.	Written by:	Date.
S1-0231-D_A	S1-0231	Anders Lundgren	2003-09-23



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