LASER COMPONENTS

SiTek® ELECTRO OPTICS

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*10⁴	10,0*10⁴	10,01*10⁴	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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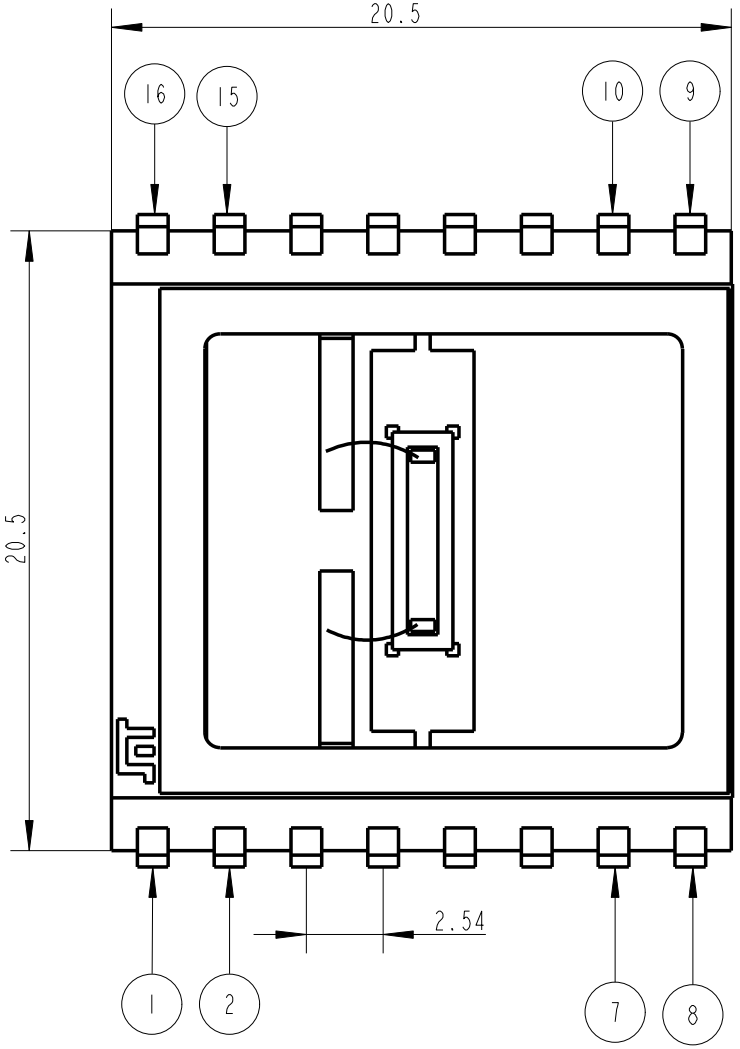
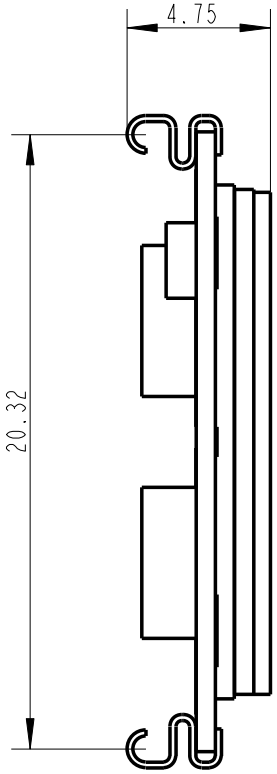
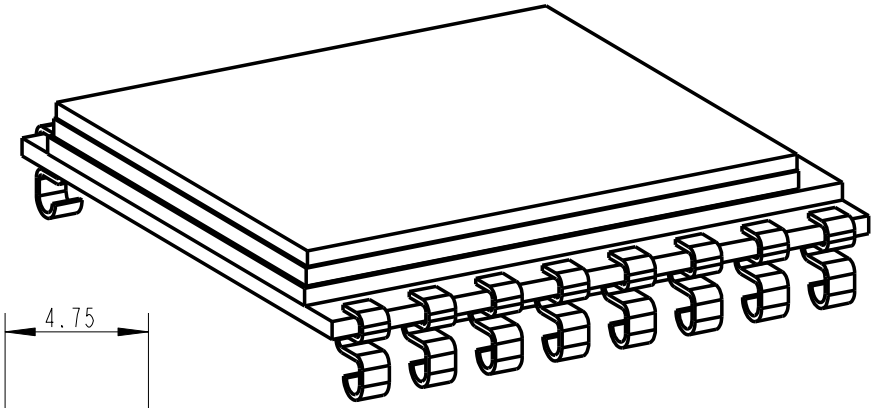
10/09 / V2 / HW / sitek/ IL5_sux_spc01.pdf







Pin no.	Input / Output
1	AMP Y1
2	NC
3	NC
4	SUM Y
5	NC
6	OA SUM Y
7	NC
8	NC
9	NC
10	+15 V
11	GND
12	GND
13	DIFF Y
14	OA DIFF Y
15	-15 V
16	AMP Y2

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	IL5_SUx_SPC01	4	A
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