# **Evaluation Board for SPC-PSD**

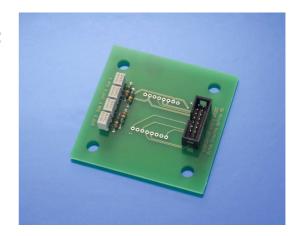
# **Evaluation board for SiTek Position Sensing Detector** with Signal Processing Circuit

Part number: SE - 0013

**Description: Evaluation board SPC02** 

The Evaluation Board for SPC01 is a tool for simplifying the evaluation of our SPC-PSDs. The board includes offset compensation electronics and a 14-pin connector that makes the inputs and outputs of the SPC-PSD easily accessible.

The Evaluation Board can easily be mounted on an optical table by using a standard 2" filter holder or screwed to for example an XYZ stage by using M6 screws.



Electrical specification					
Parameter Potentiometers Offset compensation resistors Offset compensation range	<b>Symbol</b> $P_{1}-P_{4}$ $R_{1}-R_{4}$	<b>Value</b> 10 1 ± 295	$\begin{array}{c} \textbf{Unit} \\ k\Omega \\ M\Omega \\ mV \end{array}$		
Absolute maximum ratings					
Parameter Power supply voltage	Symbol V <sub>s</sub>	Value ± 18	Unit V		

## Offset compensation range

The range of the offset compensation is determined by the value of the the offset compensation resistors. This range can be changed by replacing the resistors R1-R4 with other resistors.

Resistor value (R1-R4)	Offset compensation range
5 Mohm	± 60 mV
500 kohm	± 0,58 V
100 kohm	± 2,5 V

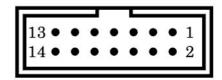




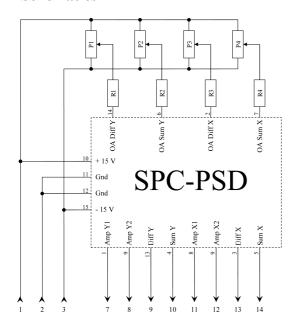
## **Connector Description**

Pin no.	Input/Output	Information
1	+15 V	
2	Gnd	
3	-15 V	
4	N.A.	No connection
5	N.A.	No connection
6	N.A.	No connection
7	Amp Y1	
8	Amp Y2	
9	Diff Y	Amp Y1 – Amp Y2
10	Sum Y	Amp Y1 + Amp Y2
11	Amp X1	
12	Amp X2	
13	Diff X	Amp X1 – Amp X2
14	Sum X	Amp X1 + Amp X2

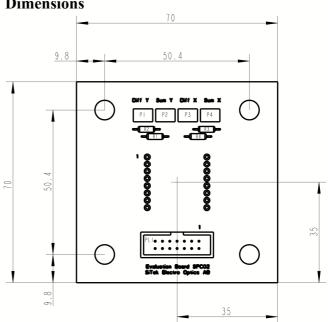
Connector type: Low profile14-pin header 2,54 x 2,54 mm Centerline, matrix



#### **Schematics**



#### **Dimensions**



#### **Solder instructions**

Soldering of the SPC-PSD to the Evaluation Board shall be done by soldering iron within the specification below.

Maximum power	30 W
Maximum temperature at tip of iron	300 °C
Maximum soldering time	5 s

Information in this data sheet is believed to be reliable. However, no responsibility is assumed for possible inaccuracies or omissions. Specifications are subjected to changes without notice.

