

SEEPOS **SiTek[®]**
ELECTRO OPTICS

PSDs in Mechanical Holder MH01

SiTek's high linearity PSDs are also available in a mechanical holder suitable for optical system setups. The mechanical holder MH01 has a size of only 52 x 52 mm² and the PSD is easily accessed via a DSUB9 connector. It is designed to fit ø1" filters as well as standard optomechanical components, such as posts and lens tubes. To minimize reflections it has a black anodized surface.



PSD Holder MH01 selection

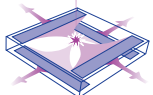
The holder is available with SiTek's PSDs ranging from 2,5 - 20 mm (1D) and 2 x 2 - 20 x 20 mm² (2D). SiTek's UV-enhanced PSDs and PSDs with stray light elimination (NT) can be delivered mounted in the PSD mechanical holder upon request.

Part number & Parameters

PSD Holder with 1-dimensional PSDs						
General data						
Position non-linearity	+/-0,1%					
Detector resistance	50 kohm					
Part Number	Description	Active area (mm)	Leakage current (nA)	Noise current (pA/√Hz)	Capacitance (pF)	Rise time (10-90%) (µs)
S1-0320	1L2,5_MH01	2,5 x 0,6	2	0,4	1,6	0,03
S1-0321	1L5_MH01	5 x 1	4	0,4	5	0,05
S1-0322	1L10_MH01	10 x 2	8	0,4	15	0,2
S1-0323	1L20_MH01	20 x 3	60	0,5	45	0,5

PSD Holder with 2-dimensional PSDs						
General data						
Position non-linearity	+/-0,3%					
Detector resistance	10 kohm					
Part Number	Description	Active area (mm)	Leakage current (nA)	Noise current (pA/√Hz)	Capacitance (pF)	Rise time (10-90%) (µs)
S2-0357	2L2_MH01	2 x 2	50	1,3	7	0,03
S2-0358	2L4_MH01	4 x 4	50	1,3	20	0,08
S2-0359	2L10_MH01	10 x 10	100	1,3	90	0,4
S2-0360	2L20_MH01	20 x 20 *	200	1,5	360	1,6

* Active area is limited by Ø23 mm aperture



Pin no.	Output
1	X1 (only 2D-PSD)
2	X2 (only 2D-PSD)
3	Y1
4	Y2
5	N.C.
6	N.C.
7	N.C.
8	Bias (only 1D-PSD)
9	N.C.

The PSD connections are accessed via a DSUB9 connector and the holder can be connected to SiTek's Signal Processing System SEEPOS with the supplied cable.

Optomechanical accessories suitable for SiTek PSD Holder MH01

SiTek PSD holder is designed to fit standard optical and optomechanical components like posts, filters, filter holders, lens tubes etc. Some suitable accessories, which often can be found at your local optomechanical supplier, are listed below and further information can be provided by your local distributor or SiTek Electro Optics AB.

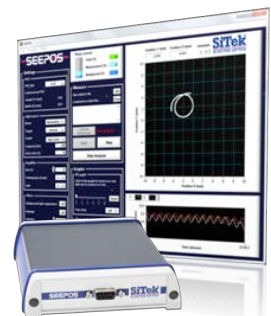
- Optical posts with M4 thread
- Ø1" or Ø25 mm mounted or unmounted optical filters without thread
- Ø1" mounted optical filters with 1035"-40 external thread
- Retaining ring 1.035"-40
- Ø1" lens tube with 1035"-40 external thread
- 30 mm cage system (rods with #4-40 thread)



PSD Holder MH01 suits SEEPOS perfectly

For most position measurement applications the SiTek SEEPOS system offers a complete and easy-to-use solution. It is a versatile PSD signal processing tool optimized for development of PSD systems. High speed PSD electronics combined with digital signal processing and high speed USB data transfer makes it possible to build your own powerful measurement system. All parameters, such as PSD bias voltage, amplifier gain, the use of analog and digital filters etc., are easily controlled from the software and light spot position is continuously displayed both in XY and X-t, Y-t graphs.

For further information contact your local distributor or SiTek Electro Optics AB.



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.

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