

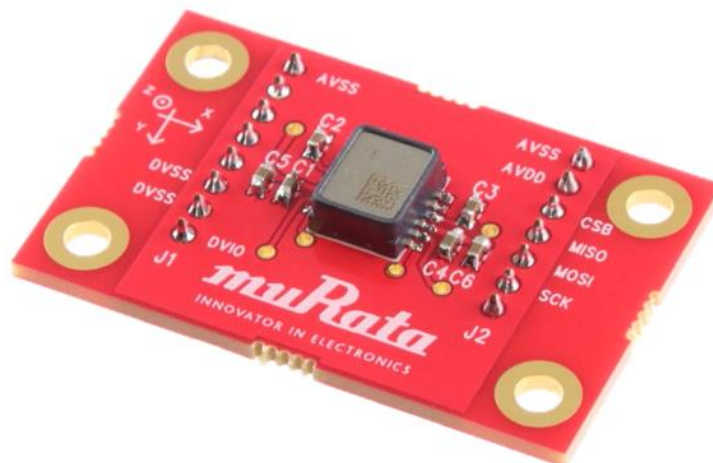
SCA3300 / SCL3300 / SCL3400 / SCA3400 PCB SPECIFICATION

SCA3300 Accelerometers

SCL3300 Inclinometers

SCL3400 Inclinometers

SCA3400 Accelerometers



SCA3300 / SCL3300 / SCL3400 / SCA3400 Chip Carrier PCB

Purpose of the Chip Carrier PCB is to enable fast prototyping.

SCA3300 / SCL3300 / SCL3400 / SCA3400 Chip Carrier PCB includes:

- Sensor soldered on PCB
- PCB design # 01059 with pin headers and passive components

Please refer to SCA3300 / SCL3300 / SCL3400 / SCA3400 datasheet when using the Chip Carrier PCB.

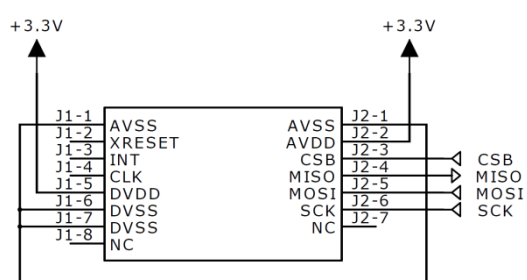


Figure 1. Chip Carrier PCB pinout and external connections.

Table 1. BOM of the SCA3300 / SCL3300 / SCL3400 / SCA3400 Chip Carrier PCB.

Item	Qty	Ref	Part Name / type	Value
1	4	C1-4	Capacitor 0603	100 nF
2	2	C5-6 (Optional)	Capacitor 0603	10 μ F
3	1	U1	SCA3300 / SCL3300 / SCL3400 / SCA3400 Accelerometer	
4	1	J1	8-pin through hole pin header, pitch 100 mils, pin size 0.63x0.63mm, length ~5.85mm (example mating part: Samtec: SSQ-108-01-S-S)	
5	1	J2	7-pin through hole pin header, pitch 100 mils, pin size 0.63x0.63mm, length ~5.85mm (example mating part: Samtec: SSQ-107-01-S-S)	

Detailed pictures of the Chip Carrier PCB are presented on following pages:

- PCB layout
- Assembly drawings
- Circuit diagram

PCB mechanical dimensions:

- Width 42.9 mm
- Height 27.4 mm
- Height 15.1 mm (incl. components and pin headers)

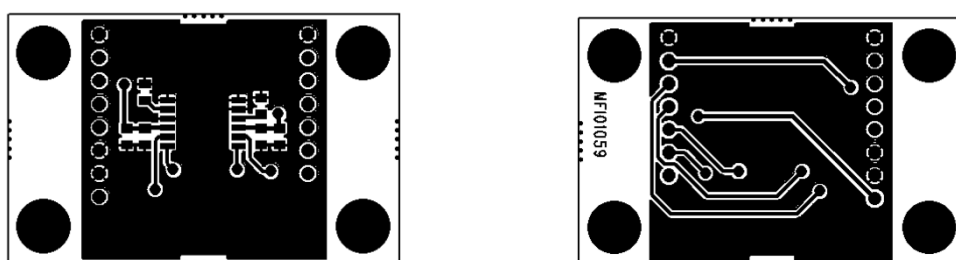


Figure 2. TOP (left) and BOTTOM (right) layout of the Chip Carrier PCB (aspect ratio not 1:1).

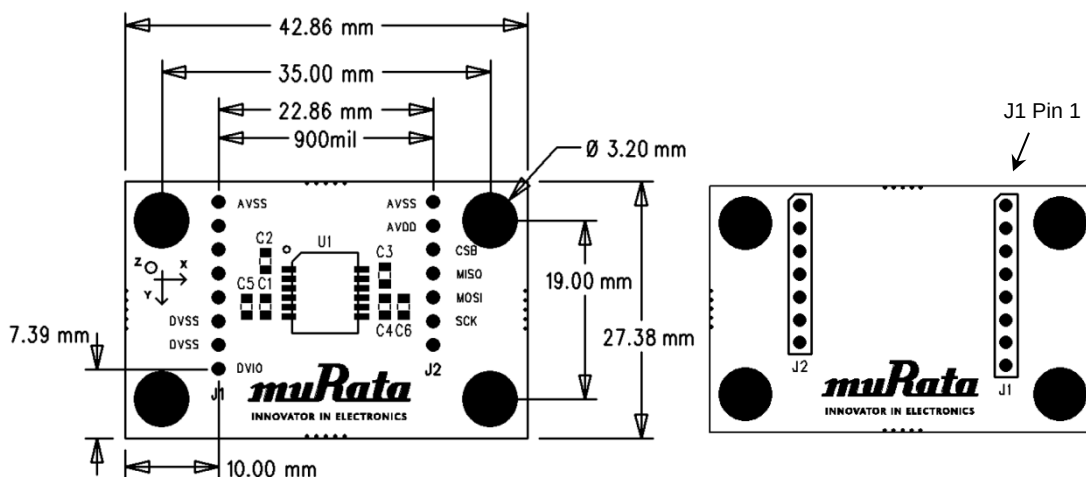


Figure 3. TOP (left) and BOTTOM (right) view assembly drawings for the Chip Carrier PCB (aspect ratio not 1:1).

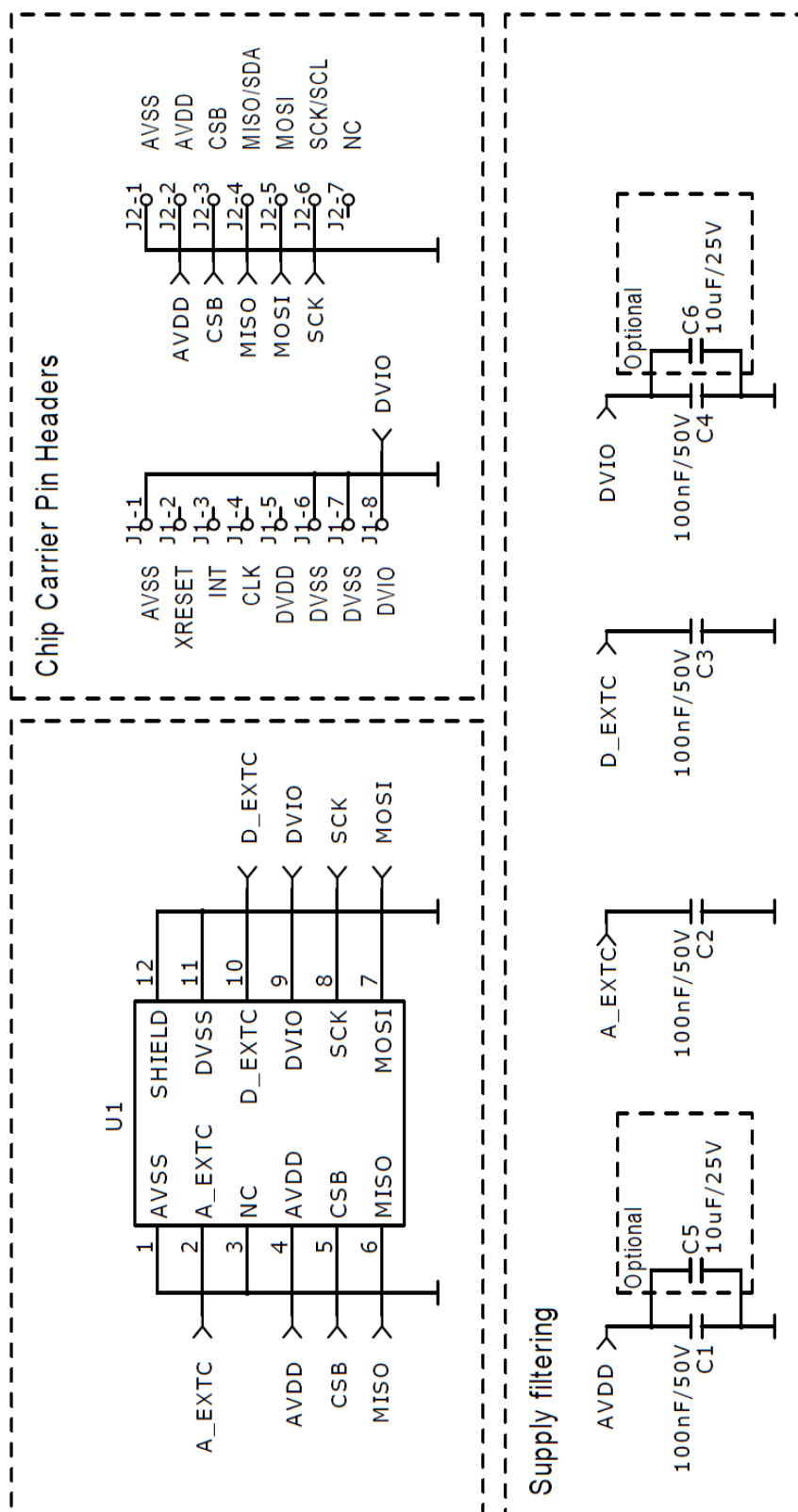


Figure 4. SCA3300 / SCL3300 / SCL3400 / SCA3400 Chip Carrier PCB circuit diagram.

Author	Approved by
OKA	Antti Miettinen
Department/Role	
NBD/Application Engineer	

Rev.	Date	Change Description	Author	Reviewed by	ECN
1	4.4.2019	First version, copied from "APP 2976 Rev.2 SCA3300 PCB Specification ENG". Product picture and drawings updated to PCB revision B3a (SCx3300). Purpose is to support both SCA- and SCL-versions of the component.	OKA		
2	15.3.2022	Added new product SCL3400 and for this reason changed document name to "SCA3300 SCL3300 SCL3400 PCB Specification". Added new PCB photo to 1 st page (Product type text removed from silk). Removed references to "SCx3300".	OKA		
3	14.5.2025	Added new product SCA3400 and for this reason changed document name to "SCA3300 SCL3300 SCL3400 SCA3400 PCB Specification".	OKA		