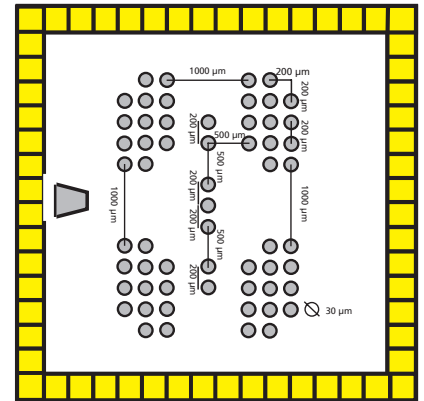


## 60-4Q1000MEA 60-4Q1000MEAiR-Ti

### Layout



### Technical Specifications

Temperature compatibility	0 - 125 °C
Dimensions (W x D x H)	49 mm x 49 mm x 1 mm
Base material	Glass
Track material	Ti (Titanium)
Contact pads	TiN (Titanium nitride)
Electrode diameter	30 μm
Interelectrode distance (center to center)	200 μm inside of the quadrants 1000 μm between the quadrants 500 μm from quadrants to the centerline
Electrode height	Planar
Electrode material	TiN (Titanium nitride)
Isolation material	Silicon nitride 500 nm (PEVCD)
Electrode impedance	< 100 kΩ
Electrode layout grid	4 x (1 x 4 + 1 x 5 + 1 x 4) + center line 1 x 7
Number of recording electrodes	59
Number of reference electrodes	1 internal reference electrode (iR)
Software	
Multi Channel Experimenter	MEA Configuration
MC_Rack	2 dim. (MEA) or Configuration
Channel map	4Q1000.cmp

### Advantages

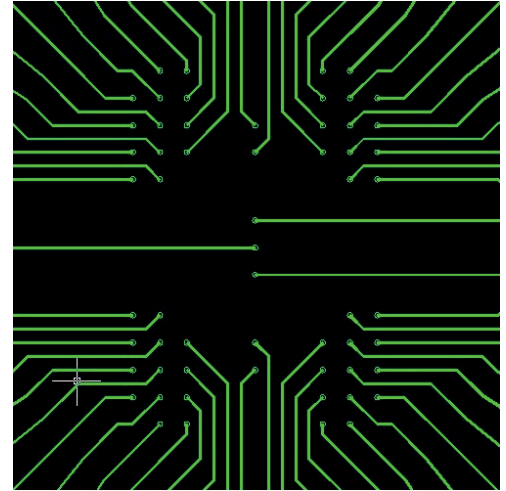
- 60-4QMEA1000 layout for special applications.
- The 60-4QMEA1000 has 60 electrodes organized in four quadrants (13 electrodes each) with a center line (7 electrodes).

### MEA Perfusion Chamber

- (w/o) Without ring
- (gr) Glass ring ID +/- 19 mm, OD +/- 24 mm, height 6 / 12 mm
- (pr) Plastic ring without thread ID 26.5 mm, OD 30 mm, height 6 / 15 mm
- (pr-T) Plastic ring with thread ID 26 mm, OD 30 mm, height 6 / 15 mm

## 60-4Q1000MEA 60-4Q1000MEAiR-Ti

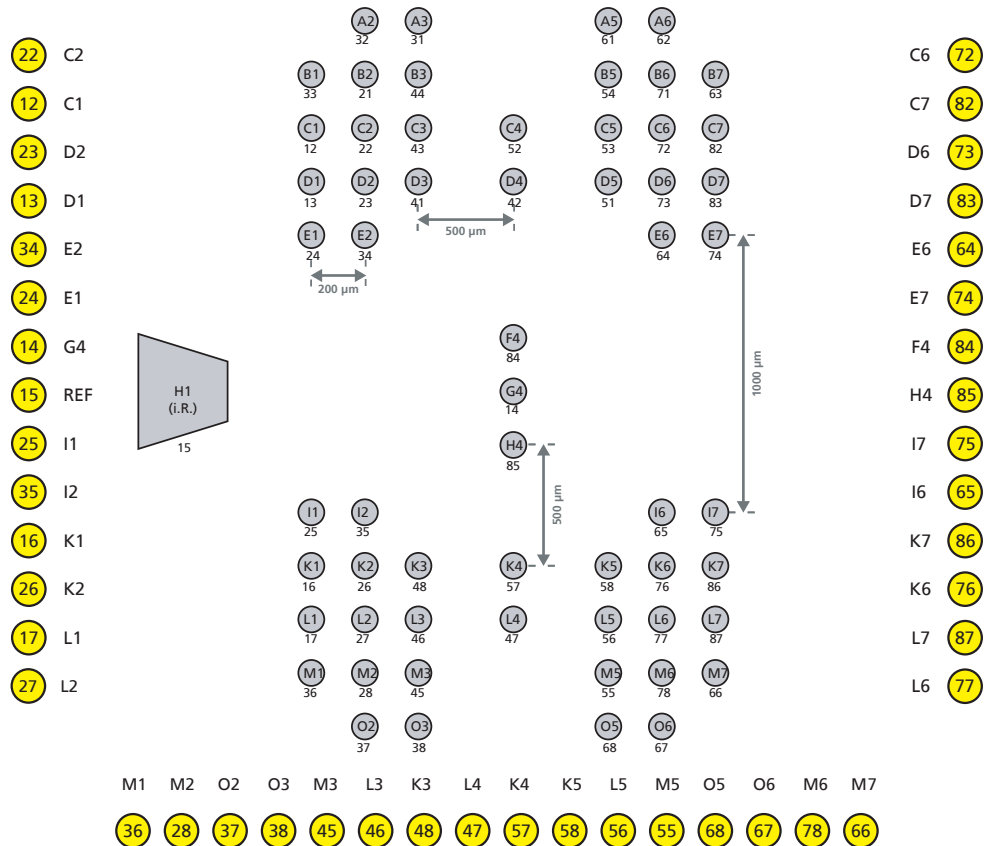
### Layout



### Numbering

The letter-digit code is the electrode identifier and refers to the position of the electrode in the four quadrant grid. The specified MEA amplifier pin numbers are the channel numbers that are used in MC\_Rack, when using the 2 dimensional layout in "Data Source Setup".

MEA pins **33 21 32 31 44 43 41 42 52 51 53 54 61 62 71 63**  
 Electrode # B1 B2 A2 A3 B3 C3 D3 D4 C4 D5 C5 B5 A5 A6 B6 B7



MEAs are not symmetrical! MEAs with internal reference electrode should be placed with reference electrode to the left side when looking directly to the opened amplifier.