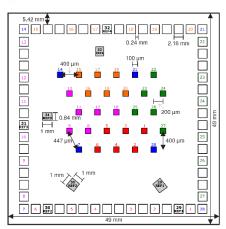
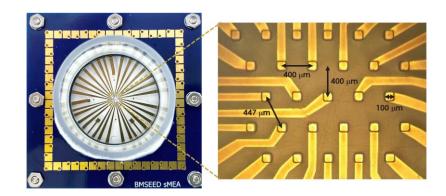


Technical Specification Sheet 32sMEA-100-400-4iR





Features and Benefits

- Recording & stimulation of extracellular electrophysiological activity before, during and after stretching
- Physiologically relevant cellular environment by using soft and elastically stretchable materials
- Apply biomechanical cues to reproduce in vivo environment
- Normalization of post-stretch electrophysiology to pre-stretch level
- Transparent substrate to view specimens under a microscope
- Compatibility with BMSEED and MultiChannel Systems data acquisition system

| Technical Specifications | |
|---|--|
| Temperature Compatibility | 10-60°C |
| Overall Dimensions (W × D × H) | 49 mm × 49 mm × 1.25 mm |
| Substrate and Encapsulation Material | Polydimethylsiloxane (PDMS) |
| Electrode Material | Gold (Au) coated with platinum black (lead-free) |
| Contact Pad Material | Gold coated Nickel |
| Well Diameter and Material | 25.4 mm (1 inch), polycarbonate |
| Young's Modulus of the sMEA | 2 MPa |
| Thickness of the sMEA (substrate+encapsulation) | 270 μm (thinner and thicker samples available) |
| Electrode Diameter | 100 μm |
| Interelectrode Distance (center-to-center) | 400 μm (within row) or 447 μm (between rows) |
| Electrode Impedance | <400 kΩ |
| Number of Recording Electrodes | 28 |
| Number of Reference Electrodes | 4 internal reference electrodes |
| Area of Recording Electrodes | 2.32 mm × 1.72 mm |
| Maximum Strain and Strain Rate | 50% at 80/s |

BMSEED

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Product information is subject to change without notice.