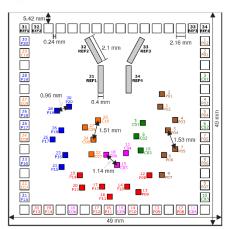
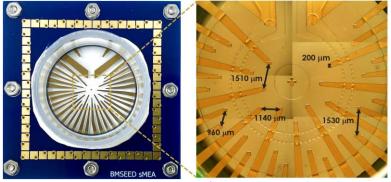


Technical Specification Sheet 34sMEA-200-960-4iR-Au

Part Number (PN): 11-5200





*optional 3D microchannels shown

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	200 μm
Interelectrode Distance (center-to-center)	960 mm (outer e-'s) or 1140 mm (inner e-'s)
Electrode Impedance	<400 kΩ
Number of Recording Electrodes	30
Number of Reference Electrodes	4 internal reference electrodes
Area of Recording Electrodes (Diameter)	9.8 mm × 9.8 mm
Maximum Strain and Strain Rate	50% at 80/s

BMSEED

245 W 2nd St, STE 051-052 Mesa, AZ 85201 United States Contact: Oliver Graudejus +1 609 532 9744 oliver@bmseed.com www.bmseed.com

Product information is subject to change without notice.