Model 130B40 is a prepolarized, surface microphone providing a cost-effective solution for measuring surface pressure. Through CFD modeling software, the 130B40 is optimized for wind-induced noise applications. Front venting allows for atmospheric pressure equalization and flush mounting or adhesive mounting on flat planar or curved surfaces. The low profile height allows for measurements to be taken where traditional microphones don’t fit. The water and dust resistant mesh grid cap makes it an excellent choice for tire wells and other rough environments. The unit comes with a built-in preamplifier and attached 5-foot cable. Because it’s a pressure field response microphone, it is commonly used in small closed couplers, confined spaces, or flush mounted to hard reflective surfaces.

### POLARIZATION VOLTAGE – ICP® (0V) PREPOLARIZED

PCB® is the inventor of ICP® sensor power technology. All manufacturers of IEC 61094-4 compliant prepolarized (0V) microphones use the technology that PCB developed. Prepolarized microphones operate on 2-20 mA constant current supply and use coaxial cables resulting in significant per channel cost savings over the PCB 200V models. Other ICP® compatible sensors such as accelerometers, force, strain, and pressure sensors use the same power supplies and cables as prepolarized microphones, further reducing set-up time and initial investment costs.
**PCB® QUALITY COMMITMENT**

PCB is uniquely equipped with a state of the art, CNC machining facility, allowing control over quality, pricing, and delivery. Investments in clean rooms, anechoic, and environmental test chambers, combined with our rigorous testing and aging process, ensures our products will survive in demanding environmental conditions. PCB has the industry’s best 5-year warranty with a “Total Customer Satisfaction” policy.

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**130B40 PREPOLARIZED SURFACE MICROPHONE**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensitivity at 250 Hz (± 3 dB)</td>
<td>mV/Pa (dB re 1 V/Pa)</td>
</tr>
<tr>
<td>Frequency Range (± 3 dB)</td>
<td>Hz</td>
</tr>
<tr>
<td>Frequency Range (± 6 dB)</td>
<td>Hz</td>
</tr>
<tr>
<td>Cartridge Thermal Noise</td>
<td>dB(A)</td>
</tr>
<tr>
<td>Distortion Limit (3% distortion)</td>
<td>dB</td>
</tr>
<tr>
<td>Distortion Limit (Max Before Clipping)</td>
<td>dB</td>
</tr>
<tr>
<td>Pressure Equalization Vent</td>
<td>Vent Type</td>
</tr>
</tbody>
</table>

**Environmental Specifications**

- Operating Temperature Range
  - °C: -40 to +176
  - °F: -40 to +80

**Electrical Specifications**

- Polarization Voltage: V
  - 0
- Maximum Output Voltage*: Vpk
  - ± 7

**Physical Specifications**

- Size (Dia. x Height without Fairing): in (mm)
  - 0.52 x 0.126 (13.2 x 3.2)
- Size (Dia. x Height with Fairing): in (mm)
  - 1.62 x 0.126 (41.0 x 3.2)
- Matting Cable Connectors: Microdot
  - 10-32
- Cable Length (attached): ft (m)
  - 5 (1.5)

* all specifications typical unless otherwise noted

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**OPTIONAL ACCESSORIES**

- **54924-01** – double-sided base adhesive pad
- **54925-01** – single-sided top adhesive pad
- **55739-01** – silicone fairing

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