



Model Number <b>130E20</b>	<b>ICP® ELECTRET ARRAY MICROPHONE</b>		Revision: F ECN #: 42672																																																																											
<b>Performance</b> Nominal Microphone Diameter Frequency Response Characteristic(at 0° incidence) Frequency Response(± 2 dB) Frequency Response(± 5 dB) Phase Match(100 Hz to 5 kHz) Sensitivity(@ 250 Hz) Sensitivity(± 3 dB)(@ 250 Hz) Inherent Noise(A Weighted) Dynamic Range(3% Distortion Limit) TEDS Compliant <b>Environmental</b> Temperature Range(Operating) Temperature Effect on Output(-10 to +50 °C) <b>Electrical</b> Excitation Voltage Constant Current Excitation Output Bias Voltage Output Impedance <b>Physical</b> Housing Material Electrical Connector(Output) Size (Diameter x Length)(overall) Size (Diameter x Length)(head) Weight   <p><i>All specifications are at room temperature unless otherwise specified.          In the interest of constant product improvement, we reserve the right to change specifications without notice.</i></p> ICP® is a registered trademark of PCB Group, Inc.	<table border="1"> <thead> <tr> <th data-bbox="697 152 882 178">ENGLISH</th> <th data-bbox="882 152 1108 178">SI</th> <th data-bbox="1071 272 1108 298"></th> </tr> </thead> <tbody> <tr> <td data-bbox="697 178 882 204">1/4"</td> <td data-bbox="882 178 1108 204">1/4"</td> <td data-bbox="1071 272 1108 298"></td> </tr> <tr> <td data-bbox="697 204 882 230">Free-Field</td> <td data-bbox="882 204 1108 230">Free-Field</td> <td data-bbox="1071 272 1108 298"></td> </tr> <tr> <td data-bbox="697 230 882 256">20 to 10,000 Hz</td> <td data-bbox="882 230 1108 256">20 to 10,000 Hz</td> <td data-bbox="1071 272 1108 298"></td> </tr> <tr> <td data-bbox="697 256 882 282">20 to 20,000 Hz</td> <td data-bbox="882 256 1108 282">20 to 20,000 Hz</td> <td data-bbox="1071 272 1108 298">[2]</td> </tr> <tr> <td data-bbox="697 282 882 308">± 5 °</td> <td data-bbox="882 282 1108 308">± 5 °</td> <td data-bbox="1071 272 1108 298"></td> </tr> <tr> <td data-bbox="697 308 882 334">45 mV/Pa</td> <td data-bbox="882 308 1108 334">45 mV/Pa</td> <td data-bbox="1071 272 1108 298"></td> </tr> <tr> <td data-bbox="697 334 882 360">-26.9 dB re 1 V/Pa</td> <td data-bbox="882 334 1108 360">-26.9 dB re 1 V/Pa</td> <td data-bbox="1071 272 1108 298"></td> </tr> <tr> <td data-bbox="697 360 882 386">&lt;30 dB</td> <td data-bbox="882 360 1108 386">&lt;30 dB</td> <td data-bbox="1071 272 1108 298"></td> </tr> <tr> <td data-bbox="697 386 882 412">&gt;122 dB</td> <td data-bbox="882 386 1108 412">&gt;122 dB</td> <td data-bbox="1071 272 1108 298"></td> </tr> <tr> <td data-bbox="697 412 882 438">Yes</td> <td data-bbox="882 412 1108 438">Yes</td> <td data-bbox="1071 272 1108 298">[3]</td> </tr> <tr> <td data-bbox="697 438 882 464">+14 to +122 °F</td> <td data-bbox="882 438 1108 464">-10 to +50 °C</td> <td data-bbox="1071 272 1108 298"></td> </tr> <tr> <td data-bbox="697 464 882 490">&lt;0.7 dB</td> <td data-bbox="882 464 1108 490">&lt;0.7 dB</td> <td data-bbox="1071 272 1108 298">[1]</td> </tr> <tr> <td data-bbox="697 490 882 516">18 to 30 VDC</td> <td data-bbox="882 490 1108 516">18 to 30 VDC</td> <td data-bbox="1071 272 1108 298"></td> </tr> <tr> <td data-bbox="697 516 882 542">2 to 20 mA</td> <td data-bbox="882 516 1108 542">2 to 20 mA</td> <td data-bbox="1071 272 1108 298"></td> </tr> <tr> <td data-bbox="697 542 882 568">5.5 to 14 VDC</td> <td data-bbox="882 542 1108 568">5.5 to 14 VDC</td> <td data-bbox="1071 272 1108 298"></td> </tr> <tr> <td data-bbox="697 568 882 594">&lt;150 Ohm</td> <td data-bbox="882 568 1108 594">&lt;150 Ohm</td> <td data-bbox="1071 272 1108 298"></td> </tr> <tr> <td data-bbox="697 594 882 620">Stainless Steel</td> <td data-bbox="882 594 1108 620">Stainless Steel</td> <td data-bbox="1071 272 1108 298"></td> </tr> <tr> <td data-bbox="697 620 882 646">BNC Jack</td> <td data-bbox="882 620 1108 646">BNC Jack</td> <td data-bbox="1071 272 1108 298"></td> </tr> <tr> <td data-bbox="697 646 882 672">0.5 in x 2.62 in</td> <td data-bbox="882 646 1108 672">12.7 mm x 66.6 mm</td> <td data-bbox="1071 272 1108 298"></td> </tr> <tr> <td data-bbox="697 672 882 698">0.28 in x 1.10 in</td> <td data-bbox="882 672 1108 698">7 mm x 28 mm</td> <td data-bbox="1071 272 1108 298"></td> </tr> <tr> <td data-bbox="697 698 882 724">0.91 oz</td> <td data-bbox="882 698 1108 724">25.7 gm</td> <td data-bbox="1071 272 1108 298">[1]</td> </tr> </tbody> </table>	ENGLISH	SI		1/4"	1/4"		Free-Field	Free-Field		20 to 10,000 Hz	20 to 10,000 Hz		20 to 20,000 Hz	20 to 20,000 Hz	[2]	± 5 °	± 5 °		45 mV/Pa	45 mV/Pa		-26.9 dB re 1 V/Pa	-26.9 dB re 1 V/Pa		<30 dB	<30 dB		>122 dB	>122 dB		Yes	Yes	[3]	+14 to +122 °F	-10 to +50 °C		<0.7 dB	<0.7 dB	[1]	18 to 30 VDC	18 to 30 VDC		2 to 20 mA	2 to 20 mA		5.5 to 14 VDC	5.5 to 14 VDC		<150 Ohm	<150 Ohm		Stainless Steel	Stainless Steel		BNC Jack	BNC Jack		0.5 in x 2.62 in	12.7 mm x 66.6 mm		0.28 in x 1.10 in	7 mm x 28 mm		0.91 oz	25.7 gm	[1]	<p data-bbox="1117 152 1921 178" style="text-align: center;"><b>OPTIONAL VERSIONS</b></p> <p data-bbox="1117 178 1921 227">Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.</p> <p data-bbox="1117 243 1921 269"><b>T</b> - TEDS Capable of Digital Memory and Communication Compliant with IEEE P1451.4</p> <p data-bbox="1117 373 1921 399"><b>NOTES:</b></p> <p data-bbox="1117 399 1921 425">[1] Typical.</p> <p data-bbox="1117 425 1921 451">[2] ± 3° from 100 Hz to 3 kHz typical</p> <p data-bbox="1117 451 1921 477">[3] TEDS Capable Digital Memory and Communication, compliant with IEEE 1451.4</p> <p data-bbox="1117 659 1921 685" style="text-align: center;"><b>SUPPLIED ACCESSORIES:</b></p> <p data-bbox="1117 685 1921 711">Model ACS-21 Calibration of Electret Microphone (1)</p> <table border="1" data-bbox="1117 743 1921 831"> <tr> <td data-bbox="1121 747 1276 782">Entered: AP</td> <td data-bbox="1276 747 1432 782">Engineer: MT</td> <td data-bbox="1432 747 1587 782">Sales: MV</td> <td data-bbox="1587 747 1743 782">Approved: MT</td> <td data-bbox="1743 747 1917 782">Spec Number:</td> </tr> <tr> <td data-bbox="1121 799 1276 834">Date: 3/12/2014</td> <td data-bbox="1276 799 1432 834">Date: 3/12/2014</td> <td data-bbox="1432 799 1587 834">Date: 3/12/2014</td> <td data-bbox="1587 799 1743 834">Date: 3/12/2014</td> <td data-bbox="1743 799 1917 834" style="text-align: center;"><b>43067</b></td> </tr> </table> <div data-bbox="1117 873 1575 950" style="display: flex; align-items: center;">  <p data-bbox="1654 873 1917 950"> <b>Phone: 716-684-0001</b>  <b>Fax: 716-684-0987</b>  <b>E-Mail: info@pcb.com</b> </p> </div> <p data-bbox="1117 928 1470 954">3425 Walden Avenue, Depew, NY 14043</p>	Entered: AP	Engineer: MT	Sales: MV	Approved: MT	Spec Number:	Date: 3/12/2014	Date: 3/12/2014	Date: 3/12/2014	Date: 3/12/2014	<b>43067</b>
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