

Model Number <b>377A15</b>	<b>PRECISION CONDENSER MICROPHONE</b>	Revision: A ECN #: 47338
-------------------------------	---------------------------------------	-----------------------------

	<u>ENGLISH</u>	<u>SI</u>	
<b>Performance</b>			
Nominal Microphone Diameter	1"	1"	
Frequency Response Characteristic	Pressure	Pressure	
Open Circuit Sensitivity	50 mV/Pa	50 mV/Pa	[3]
Open Circuit Sensitivity(+/-2 dB)	-26 dB re 1 V/Pa	-26 dB re 1 V/Pa	[3]
Frequency Range(+/-2 dB)	5 to 8000 Hz	5 to 8000 Hz	
Lower Limiting Frequency	1 to 3 Hz	1 to 3 Hz	
Resonant Frequency(90° Phase Shift)	8.6 kHz	8.6 kHz	[1]
Inherent Noise	10 dB(A) re 20 μPa	10 dB(A) re 20 μPa	[1]
Inherent Noise	<11.5 dB(A) re 20 μPa	<11.5 dB(A) re 20 μPa	
Dynamic Range(3% Distortion Limit)	>150 dB re 20 μPa	>150 dB re 20 μPa	
Standards Designation(IEC 61094-4)	WS1P	WS1P	
<b>Environmental</b>			
Temperature Range(Operating)	-40 to +248 °F	-40 to +120 °C	
Temperature Coefficient of Sensitivity(+14 to +122°F (-10 to +50°C))	+0.006 dB/°F	+0.01 dB/°C	[1][3]
Static Pressure Coefficient	-0.012 dB/kPa	-0.012 dB/kPa	[1][3]
Humidity Coefficient of Sensitivity(0 to 100%, non-condensing)	+/-0.001 dB/%RH	+/-0.001 dB/%RH	[3]
Influence of Axial Vibration(0.1g (1 m/s <sup>2</sup> ))	66.5 dB re 20 μPa	66.5 dB re 20 μPa	[1]
<b>Electrical</b>			
Capacitance	45 pF	45 pF	[1]
Polarization Voltage	0 V	0 V	[2]
<b>Physical</b>			
Housing Material	Stainless Alloy	Stainless Alloy	
Venting	Rear	Rear	
Mounting Thread(Preamplifier)	0.9098-60 UNS	23.11mm-60 UNS	
Mounting Thread(Grid)	0.9098-60 UNS	23.11mm-60 UNS	
Size (Diameter x Height)(with grid)	0.936 in x 0.748 in	23.77 mm x 19 mm	
Size (Diameter x Height)(without grid)	0.936 in x 0.668 in	23.77 mm x 17 mm	
Weight	1.08 oz	30.6 gm	[1]

**OPTIONAL VERSIONS**

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

**NOTES:**

[1] Typical.  
 [2] Prepolarized  
 [3] re 250 Hz  
 [4] See PCB Declaration of Conformance PS167 for details.

**SUPPLIED ACCESSORIES:**

Model ACS-20 Calibration of Precision Condensator Microphones (1)

Entered: LK	Engineer: MT	Sales: MV	Approved: MT	Spec Number:
Date: 10/17/2017	Date: 10/17/2017	Date: 10/17/2017	Date: 10/17/2017	<b>63104</b>



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.  
 ICP® is a registered trademark of PCB Group, Inc.



3425 Walden Avenue, Depew, NY 14043

**Phone: 716-684-0001**  
**Fax: 716-684-0987**  
**E-Mail: info@pcb.com**