

Model Number 426A30		MICROPHONE PREAMPLIFIER		Revision: B ECN #: 29545	
Performance		ENGLISH	SI	OPTIONAL VERSIONS	
Nominal Microphone Diameter		1/2"	1/2"	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.	
Gain		-0.2 dB	-0.2 dB		
Frequency Response(± 0.10 dB)		10 to 126,000 Hz	10 to 126,000 Hz		
Frequency Response(-0.5 to +0.10 dB)		3 to 10 Hz	3 to 10 Hz		
Frequency Response(-3 dB)		<1.2 Hz	<1.2 Hz		
Electrical Noise(A-weight)		<2.8 µV	<2.8 µV		
Electrical Noise(Flat 20 Hz to 20 kHz)		<5.0 µV	<5.0 µV		
Distortion(6 V rms input at 1 kHz)		<-70 dBc	<-70 dBc		
Output Slew Rate		8 V/µS	8 V/µS		
Environmental				NOTES: [1] Typical. [2] Measured with an 18 pF reference microphone. [3] See PCB Declaration of Conformance PS083 for details.	
Temperature Range(Operating)		-40 to +185 °F	-40 to +85 °C		
Temperature Response(-40 to +149 °F (-40 to +65 °C))		<0.05 dB	<0.05 dB		
Humidity Range(Non-Condensing)		0 to 90 %RH	0 to 90 %RH		
Humidity Sensitivity(at +104 °F (+40 °C))		<0.05 dB	<0.05 dB		
Electrical					
Excitation Voltage(Dual Supply)		±10 to ±18 V	±10 to ±18 V		
Excitation Voltage(Single Supply)		20 to 150 V	20 to 150 V		
Current Draw		<1.7 mA	<1.7 mA	[1]	
Impedance(Input)		10 ¹⁰ ohm	10 ¹⁰ ohm	[1]	
Capacitance(Input)		0.36 pF	0.36 pF	[1]	
Output Bias Voltage(Dual Supply)		≤ 1 VDC	≤ 1 VDC		
Output Bias Voltage(Single Supply)		17 VDC	17 VDC	[1]	
Impedance(Output)		<50 ohm	<50 ohm		
Output Voltage(with +36 V power supply)		28 Vpp	28 Vpp		
Output Current		≤ 20 mA	≤ 20 mA		
Physical					
Housing Material		Stainless Steel	Stainless Steel		
Size (Diameter x Length)		0.5 in x 5.2 in	12.7 mm x 132 mm		
Electrical Connector		7-pin Lemo FGG.1B.307	7-pin Lemo FGG.1B.307		
Mounting Thread(Microphone to Preamplifier)		0.4606 - 60 UNS	11.7 mm - 60 UNS		
CE [3] 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. Entered: BLS Date: 10-17-08 Engineer: JE Date: 10-13-08 Sales: MV Date: 10-15-08 Approved: EB Date: 10-16-08 Spec Number: 20910 PCB PIEZOTRONICS™ VIBRATION DIVISION 3425 Walden Avenue, Depew, NY 14043 Phone: 716-684-0001 Fax: 716-685-3886 E-Mail: vibration@pcb.com					