

Model Number 426B31		MICROPHONE PREAMPLIFIER		Revision: A ECN #: 26968	
Performance		ENGLISH	SI	OPTIONAL VERSIONS	
Nominal Microphone Diameter	1/4"	1/4"		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(1)	-0.14 dB	-0.14 dB	[1][3]		
Frequency Response(± 0.5 dB)	3.98 to 126,000 Hz	3.98 to 126,000 Hz	[3]		
Frequency Response(± 0.3 dB)	5.01 to 126,000 Hz	5.01 to 126,000 Hz	[3]		
Frequency Response(± 0.2 dB)	6.31 to 126,000 Hz	6.31 to 126,000 Hz	[3]		
Frequency Response(± 0.1 dB)	10.0 to 126,000 Hz	10.0 to 126,000 Hz	[3]		
Phase Linearity(± 1 °)	79.42 to 25,000 Hz	79.42 to 25,000 Hz	[3]		
Electrical Noise(A-weight)	3.8 µV	3.8 µV	[1][3]		
Electrical Noise(A-weight)	≤ 4.8 µV	≤ 4.8 µV	[3]		
Electrical Noise(Flat 20 Hz to 20 kHz)	9.3 µV	9.3 µV	[1][3]		
Electrical Noise(Flat 20 Hz to 20 kHz)	≤ 12.0 µV	≤ 12.0 µV	[3]		
Distortion(25 V rms input at 1 kHz)	<-80 dB	<-80 dB		NOTES:	
Output Slew Rate	8 V/µS	8 V/µS	[1]	[1] Typical.	
TEDS Compliant	Yes	Yes		[2] With Power Supply < ±18 VDC	
Environmental				[3] Measured with an equivalent microphone of 6.8 pF	
Temperature Range(Operating)	-4 to 167 °F	-20 to 75 °C	[2]		
Temperature Range(Storage)	-40 to 185 °F	-40 to 85 °C			
Humidity Range(Non-Condensing)	0 to 95 %RH	0 to 95 %RH			
Electrical					
Excitation Voltage(Single Supply)	28 to 120 V	28 to 120 V			
Excitation Voltage(Dual Supply)	± 14 to 60 V	± 14 to 60 V			
Current Draw	3.3 mA	3.3 mA	[1]		
Impedance(Input)	19.1 Gohm	19.1 Gohm	[1]		
Capacitance(Input)	0.18 pF	0.18 pF	[1]		
Output Bias Voltage(Dual Supply)	1.2 VDC	1.2 VDC	[1]		
Impedance(Output)	<40 ohm	<40 ohm		SUPPLIED ACCESSORIES:	
Output Voltage(Maximum)	± 50 V	± 50 V		Model ERC-16 Calibration of microphone preamplifier (1)	
Output Current(Maximum)	20 mA	20 mA	[1]		
Physical					
Housing Material	Stainless Steel	Stainless Steel			
Size (Diameter x Length)	0.25 in x 4 in	6.35 mm x 101.6 mm			
Electrical Connector	Integral Cable	Integral Cable			
Electrical Connector	7-pin Lemo FGG.1B.307	7-pin Lemo FGG.1B.307			
Cable Length	10 ft	3 m			
Mounting Thread(Microphone to Preamplifier)	0.2244 - 60 UNS	5.7 mm - 60 UNS			
<i>All specifications are at room temperature unless otherwise specified.</i> <i>In the interest of constant product improvement, we reserve the right to change specifications without notice.</i>					
				PCB PIEZOTRONICS™ VIBRATION DIVISION 3425 Walden Avenue, Depew, NY 14043	
				Phone: 716-684-0001 Fax: 716-685-3886 E-Mail: vibration@pcb.com	
Entered: <i>[Signature]</i>		Engineer: <i>[Signature]</i>		Sales: <i>[Signature]</i>	
Date: <i>8-2-07</i>		Date: <i>8-6-07</i>		Date: <i>8/6/07</i>	
				Spec Number: 37257	