

Model Number
426A30

MICROPHONE PREAMPLIFIER

Revision: B
ECN #: 29545

	ENGLISH	SI	
Performance			
Nominal Microphone Diameter	1/2"	1/2"	
Gain	-0.2 dB	-0.2 dB	[1]
Frequency Response(± 0.10 dB)	10 to 126,000 Hz	10 to 126,000 Hz	[2]
Frequency Response(-0.5 to +0.10 dB)	3 to 10 Hz	3 to 10 Hz	[2]
Frequency Response(-3 dB)	<1.2 Hz	<1.2 Hz	[2]
Electrical Noise(A-weight)	<2.8 µV	<2.8 µV	[2]
Electrical Noise(Flat 20 Hz to 20 kHz)	<5.0 µV	<5.0 µV	[2]
Distortion(6 V rms input at 1 kHz)	<-70 dBc	<-70 dBc	
Output Slew Rate	8 V/µS	8 V/µS	[1]
Environmental			
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	

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] Measured with an 18 pF reference microphone.
- [3] See PCB Declaration of Conformance PS083 for details.

Entered: <i>BLS</i>	Engineer: <i>JE</i>	Sales: <i>MV</i>	Approved: <i>EB</i>	Spec Number:
Date: <i>10-17-08</i>	Date: <i>10-13-08</i>	Date: <i>10-15-08</i>	Date: <i>10-16-08</i>	20910



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.

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3425 Walden Avenue, Depew, NY 14043

Phone: 716-684-0001
Fax: 716-685-3886
E-Mail: vibration@pcb.com