

Model Number

426B31

MICROPHONE PREAMPLIFIER

Revision: A

ECN #: 26968

Performance

ENGLISH

SI

	ENGLISH	SI	
Nominal Microphone Diameter	1/4"	1/4"	
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	
Output Slew Rate	8 V/µS	8 V/µS	[1]
TEDS Compliant	Yes	Yes	

Environmental

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	
Output Voltage(Maximum)	± 50 V	± 50 V	
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	

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.

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] With Power Supply < ±18 VDC
 [3] Measured with an equivalent microphone of 6.8 pF

SUPPLIED ACCESSORIES:

Model ERC-16 Calibration of microphone preamplifier (1)

Entered: <i>JR</i>	Engineer: <i>CCP</i>	Sales: <i>MSV</i>	Approved: <i>MSV</i>	Spec Number:
Date: <i>8-2-07</i>	Date: <i>8-6-07</i>	Date: <i>8/6/07</i>	Date: <i>8/6/07</i>	37257

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