

Model Number
426A11

MICROPHONE PREAMPLIFIER

Revision: C
ECN #: 29545

	ENGLISH	SI	
Performance			
Nominal Microphone Diameter	1/2"	1/2"	
Gain(re 1 kHz)	-0.16 dB	-0.16 dB	[1][3]
Filter Type(3-pole Butterworth)	High Pass	High Pass	[2]
Electrical Filter Corner Frequency	20 Hz	20 Hz	[1]
Filter Type	A-weight	A-weight	[4][2]
Frequency Response(± 0.2 dB)	5 to 125,000 Hz	5 to 125,000 Hz	[5][6]
Frequency Response(± 1.6 dB)(A-weight Filter Engaged)	12.6 to 20,000 Hz	12.6 to 20,000 Hz	[5][6]
Frequency Response(± 1.0 dB)(A-weight Filter Engaged)	20 to 10,000 Hz	20 to 10,000 Hz	[1][6]
Frequency Response(± 0.3 dB)(+20 dB Gain)	4 to 25,000 Hz	4 to 25,000 Hz	[6]
Phase Linearity(-3 to +10 °)	5 to 20 Hz	5 to 20 Hz	[3][7]
Phase Linearity(± 3 °)	20 to 20,000 Hz	20 to 20,000 Hz	[3][7]
Electrical Noise(A Weight, 0 dB Gain)	<7.5 µV	<7.5 µV	[3][8]
Electrical Noise(A Weight, 0 dB Gain)	5 µV	5 µV	[3][1][8]
Electrical Noise(0 dB Gain)	<5.7 µV	<5.7 µV	[3][8]
Electrical Noise(0 dB Gain)	4.2 µV	4.2 µV	[3][1][8]
Electrical Noise(+20 dB Gain)	<60 µV	<60 µV	[8][3]
Electrical Noise(+20 dB Gain)	40 µV	40 µV	[3][1][8]
Electrical Noise(High Pass Filter, 0 dB Gain)	<5.6 µV	<5.6 µV	[3][8]
Electrical Noise(High Pass Filter, 0 dB Gain)	3.7 µV	3.7 µV	[3][1][8]
Distortion(5 V pk output at 1 kHz)	<-60 dB	<-60 dB	[3]
Output Slew Rate	2 V/µS	2 V/µS	[1]
TEDS Compliant	Yes	Yes	[9]
Environmental			
Temperature Range(Operating)	-4 to +158 °F	-20 to +70 °C	
Temperature Response	<0.05 dB	<0.05 dB	
Humidity Range(Non-Condensing)	0 to 95 %RH	0 to 95 %RH	
Humidity Sensitivity	<0.05 dB	<0.05 dB	
Electrical			
Excitation Voltage	22 to 34 VDC	22 to 34 VDC	
Constant Current Excitation	4 to 20 mA	4 to 20 mA	
Impedance(Input)	10 Gohm	10 Gohm	[1]
Capacitance(Input)	0.28 pF	0.28 pF	[1]
Output Bias Voltage	15 VDC	15 VDC	[1]
Maximum Input Voltage(0 dB gain)	5 Vpk	5 Vpk	[2]
Maximum Input Voltage(+20 dB gain)	0.5 Vpk	0.5 Vpk	[2]
Impedance(at 1 kHz)(Output)	<50 ohm	<50 ohm	
Output Voltage(Maximum)	5 Vpk	5 Vpk	
Physical			
Housing Material	Stainless Steel	Stainless Steel	
Size (Diameter x Length)	0.5 in x 4.25 in	12.7 mm x 108.0 mm	
Weight	1.5 oz	43.7 gm	
Electrical Connector	BNC Jack	BNC Jack	
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] Overload detection is in front of filters. Positive pulses at output indicate overload.
- [3] Measured with an 18 pF reference microphone.
- [4] Per IEC 61672-1:2002 "Sound Level Meters" Class 1
- [5] Error from ideal A weight re 1 kHz.
- [6] re 1 kHz
- [7] Without Filter or +20 dB gain engaged.
- [8] 20 Hz to 20 kHz
- [9] TEDS Capable Digital Memory and Communication, compliant with IEEE P1451.4
- [10] See PCB Declaration of Conformance PS074 for details.

SUPPLIED ACCESSORIES:

Model ERC-16 Calibration of microphone preamplifier (1)

Entered: <i>BJS</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>	34951



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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