

Model Number
426E01

MICROPHONE PREAMPLIFIER

Revision: E
ECN #: 32199

	ENGLISH	SI	
Performance			
Nominal Microphone Diameter	1/2"	1/2"	
Gain	-0.05 dB	-0.05 dB	[1][2]
Frequency Response(± 0.1 dB)(re 1 kHz)	6.3 to 125,000 Hz	6.3 to 125,000 Hz	
(-3 dB)(re 1 kHz)	<0.9 Hz	<0.9 Hz	
Phase Linearity(<1 °)	32 to 20,000 Hz	32 to 20,000 Hz	[2]
(-1 to +10 °)	3.2 to 32 Hz	3.2 to 32 Hz	[2]
Electrical Noise(A-weight)	<2.8 µV	<2.8 µV	[2]
(A-weight)	1.7 µV	1.7 µV	[2][1]
(Flat 20 Hz to 20 kHz)	<5 µV	<5 µV	[2]
(Flat 20 Hz to 20 kHz)	3 µV	3 µV	[2][1]
Distortion(3 V rms input at 1 kHz)	<-70 dB	<-70 dB	[2]
Output Slew Rate	2 V/µS	2 V/µS	[1]
TEDS Compliant	Yes	Yes	[3]
Environmental			
Temperature Range(Operating)	-40 to +176 °F	-40 to +80 °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	20 to 32 VDC	20 to 32 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Impedance(Input)	20 Gohm	20 Gohm	[1]
Capacitance(Input)	0.06 pF	0.06 pF	[1]
Output Bias Voltage	10 to 14 VDC	10 to 14 VDC	
Impedance(Output)	<50 ohm	<50 ohm	
Output Voltage(Maximum)	± 7 Vpk	± 7 Vpk	
Physical			
Housing Material	Stainless Steel	Stainless Steel	
Size (Diameter x Length)	0.5 in x 3.18 in	12.7 mm x 80.7 mm	
Weight	1.35 oz	38 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] Measured with an 18 pF reference microphone.
- [3] TEDS Capable Digital Memory and Communication, compliant with IEEE P1451.4
- [4] See PCB Declaration of Conformance PS064 for details.

SUPPLIED ACCESSORIES:

Model ERC-16 Calibration of microphone preamplifier (1)

Entered: JH	Engineer: BAM	Sales: WDC	Approved: EPB	Spec Number:
Date: 1-26-10	Date: 1-19-10	Date: 1-27-10	Date: 1-20-10	29303



[4]

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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