

Model Number 426A07	MICROPHONE PREAMPLIFIER			Revision: NR ECN #: 43169
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	-0.19 dB	-0.19 dB	[1][2]	
Gain	-0.25 dB	-0.25 dB	[1][3]	
Frequency Response(± 0.2 dB)(re 1 kHz)	2.5 to 126,000 Hz	2.5 to 126,000 Hz		
Frequency Response(-3 dB)(re 1 kHz)	<0.7 Hz	<0.7 Hz		
Phase Linearity(<1 °)	63 to 20,000 Hz	63 to 20,000 Hz		
Electrical Noise(A-weight)	<2.5 µV	<2.5 µV	[2]	
Electrical Noise(A-weight)	1.8 µV	1.8 µV	[1][2]	
Electrical Noise(Flat 20 Hz to 20 kHz)	<5.6 µV	<5.6 µV	[2]	
Electrical Noise(Flat 20 Hz to 20 kHz)	3.5 µV	3.5 µV	[1][2]	
Electrical Noise(A-weight)	3.3 µV	3.3 µV	[3][1]	
Electrical Noise(Flat 20 Hz to 20 kHz)	5.9 µV	5.9 µV	[3][1]	
Distortion(3 V rms input at 1 kHz)	<-70 dB	<-70 dB		
Output Slew Rate	2 V/µS	2 V/µS	[1]	NOTES: [1]Typical. [2]Measured with an 18 pF reference microphone. [3]Measured with a 6 pF reference microphone. [4]TEDS Capable Digital Memory and Communication, compliant with IEEE P1451.4, uses DS2431. [5]See PCB Declaration of Conformance PS076 for details.
TEDS Compliant	Yes	Yes	[4]	
Environmental				
Temperature Range(Operating)	-40 to 158 °F	-40 to 70 °C		
Temperature Range(Storage)	-40 to 185 °F	-40 to 85 °C		
Temperature Response	<0.03 dB	<0.03 dB		
Humidity Range(Non-Condensing)	0 to 95 %RH	0 to 95 %RH		
Humidity Sensitivity	<0.03 dB	<0.03 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)	2x10 ¹⁰ Ohm	2x10 ¹⁰ Ohm	[1]	
Capacitance(Input)	0.15 pF	0.15 pF	[1]	
Output Bias Voltage	10 to 14 VDC	10 to 14 VDC		
Impedance(Output)	<50 Ohm	<50 Ohm		
Output Voltage	± 8 V	± 8 V	[1]	
Physical				
Housing Material	Stainless Steel	Stainless Steel		SUPPLIED ACCESSORIES: Model ERC-16 Calibration of microphone preamplifier (1)
Size (Diameter x Length)	0.25 in x 1.2 in	6.4 mm x 29.5 mm		
Weight	0.13 oz	3.6 gm		
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack		
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. ICP® is a registered trademark of PCB Group, Inc.				Entered: AP
				Engineer: AK
				Sales: MV
				Approved: JWH
				Spec Number:
				Date: 7/30/2014
				Date: 7/30/2014
				Date: 7/30/2014
				Date: 7/30/2014
				56350
 3425 Walden Avenue, Depew, NY 14043				Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com