



Model Number 426B03	MICROPHONE PREAMPLIFIER			Revision: E ECN #: 49878	
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]		
Frequency Response(± 0.1 dB)(re 1 kHz)	5 to 126,000 Hz	5 to 126,000 Hz			
Frequency Response(± 0.2 dB)(re 1 kHz)	3.2 to 126,000 Hz	3.2 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)	< 3.2 µV	< 3.2 µV	[2]		
Electrical Noise (A-weight)	1.9 µV	1.9 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)	3.4 µV	3.4 µV	[1][2]		
Distortion(3 V rms input at 1 kHz)	< -70 dB	< -70 dB			
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	[4]		
Temperature Range(Storage)	-40 to 185 °F	-40 to 85 °C			
Temperature Response	< 0.03 dB	< 0.03 dB	[5]		
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(Maximum)	± 8 Vpk	± 8 Vpk	[1]		
Physical					
Housing Material	Stainless Steel	Stainless Steel			
Size - Diameter	0.25 in	6.4 mm			
Size - Length	1.74 in	44.2 mm			
Weight	0.21 oz	6 gm	[1]		
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack			
Mounting Thread(Microphone to Preamplifier)	0.2244 - 60 UNS	5.7 mm - 60 UNS			
 [6]					
<p>NOTES: [1]Typical. [2]Measured with an 18 pF reference microphone. [3]TEDS Capable Digital Memory and Communication, compliant with IEEE P1451.4 [4]Limited to 70°C if ICP current >10mA [5]From -40 to 158°F (-40 to +70°C) [6]See PCB Declaration of Conformance PS076 for details.</p>					
<p>SUPPLIED ACCESSORIES: Model ERC-16 Calibration of microphone preamplifier (1)</p>					
Entered: Ink	Engineer: MJN	Sales: MV	Approved: BAM		
Date: 08/21/2019	Date: 08/21/2019	Date: 08/21/2019	Date: 08/21/2019		
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<p>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 Piezotronics, Inc.</p> <p>3425 Walden Avenue, Depew, NY 14043</p>					