

Model Number 426B03	MICROPHONE PREAMPLIFIER				Revision: D ECN #: 42966										
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			NOTES:												
Temperature Range(Operating)	-40 to 158 °F	-40 to 70 °C	[1] Typical.												
Temperature Range(Storage)	-40 to 185 °F	-40 to 85 °C	[2] Measured with an 18 pF reference microphone.												
Temperature Response	<0.03 dB	<0.03 dB	[3] TEDS Capable Digital Memory and Communication, compliant with IEEE P1451.4												
Humidity Range(Non-Condensing)	0 to 95 %RH	0 to 95 %RH	[4] See PCB Declaration of Conformance PS076 for details.												
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 V	± 8 V	[1]												
Physical															
Housing Material	Stainless Steel	Stainless Steel													
Size (Diameter x Length)	0.25 in x 1.74 in	6.4 mm x 44.2 mm													
Weight	0.21 oz	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													
CE [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. ICP® is a registered trademark of PCB Group, Inc.															
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