

Model Number 426A10		MICROPHONE PREAMPLIFIER			Revision: D ECN #: 42881							
Performance		ENGLISH		SI	OPTIONAL VERSIONS							
Nominal Microphone Diameter		1/2"		1/2"	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		-0.1 dB		-0.1 dB								
Frequency Response(± 0.1 dB)(re 1 kHz)		80 to 125,000 Hz		80 to 125,000 Hz								
Frequency Response(-3 dB)(re 1 kHz)		<10 Hz		<10 Hz								
Phase Linearity(<1 °)		500 to 20,000 Hz		500 to 20,000 Hz								
Phase Linearity(-1 to +10 °)		50 to 500 Hz		50 to 500 Hz								
Electrical Noise(A-weight)		<3.6 µV		<3.6 µV								
Electrical Noise(A-weight)		2.6 µV		2.6 µV								
Electrical Noise(Flat 20 Hz to 20 kHz)		<11.2 µV		<11.2 µV								
Electrical Noise(Flat 20 Hz to 20 kHz)		7.8 µV		7.8 µV								
Distortion(3 V rms input at 1 kHz)		<-70 dB		<-70 dB								
Output Slew Rate		2 V/µS		2 V/µS								
TEDS Compliant		Yes		Yes								
Environmental					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 PS073 for details.							
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)		2 GOhm		2 GOhm								
Capacitance(Input)		0.2 pF		0.2 pF								
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					SUPPLIED ACCESSORIES: Model ERC-16 Calibration of microphone preamplifier (1)							
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		1.34 oz		38 g								
Electrical Connector		BNC Jack		BNC Jack								
Mounting Thread(Microphone to Preamplifier)		0.4606 - 60 UNS		11.7 mm - 60 UNS								
 [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.							Entered: AP		Engineer: MT	Sales: MV	Approved: MT	Spec Number:
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