

Model Number HT426E01		MICROPHONE PREAMPLIFIER			Revision: B ECN #: 44854	
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(re 1 kHz)		-0.06 dB	-0.06 dB	[1][4]		
Frequency Response(± 0.1 dB)(re 1 kHz)		6.3 to 126,000 Hz	6.3 to 126,000 Hz	[5][4]		
Frequency Response(-3 dB)(re 1 kHz)		<1.58 Hz	<1.58 Hz	[5][4]		
Frequency Response(± 0.1 dB)(re 1 kHz)		10 to 126,000 Hz	10 to 126,000 Hz	[6][4]		
Phase Linearity(± 1 °)		63 to 40,000 Hz	63 to 40,000 Hz	[4]		
Phase Linearity(<+10 °)		10 to 63 Hz	10 to 63 Hz	[4]		
Electrical Noise(at 22 °C)(A-weight)		≤ 4.9 µV	≤ 4.9 µV	[4]		
Electrical Noise(at 22 °C)(A-weight)		3.1 µV	3.1 µV	[4][1]		
Electrical Noise(at 22 °C)(Flat 20 Hz to 20 kHz)		≤ 13.4 µV	≤ 13.4 µV	[4]		
Electrical Noise(at 22 °C)(Flat 20 Hz to 20 kHz)		9.3 µV	9.3 µV	[4][1]		
Electrical Noise(at 120 °C)(A-weight)		≤ 9.6 µV	≤ 9.6 µV	[4]		
Electrical Noise(at 120 °C)(A-weight)		6.4 µV	6.4 µV	[4][1]		
Electrical Noise(at 120 °C)(Flat 20 Hz to 20 kHz)		≤ 37.1 µV	≤ 37.1 µV	[4]		
Electrical Noise(at 120 °C)(Flat 20 Hz to 20 kHz)		24.7 µV	24.7 µV	[4][1]		
Distortion(3 V rms input at 1 kHz)		<-70 dB	<-70 dB	[4]		
Output Slew Rate		2 V/µS	2 V/µS	[1]		
TEDS Compliant		Yes	Yes	[7]		
Environmental					NOTES: [1]Typical. [2]Limited to 120°C if ICP current > 4 mA [3]Maximum. [4]Measured with a 12 pF reference microphone. [5]At 22 °C [6]At 120 °C [7]TEDS Capable Digital Memory and Communication, compliant with IEEE P1451.4 [8]See PCB Declaration of Conformance PS065 for details.	
Temperature Range(Operating)		-40 to +257 °F	-40 to +125 °C	[2]		
Temperature Response		± 0.1 dB	± 0.1 dB	[3]		
Humidity Range(Non-Condensing)		0 to 95 %RH	0 to 95 %RH			
Humidity Sensitivity		± 0.1 dB	± 0.1 dB	[3]		
Electrical						
Excitation Voltage		20 to 32 VDC	20 to 32 VDC			
Constant Current Excitation		2 to 10 mA	2 to 10 mA			
Impedance(Input)		9.4 GOhm	9.4 GOhm	[1]		
Capacitance(Input)		0.06 pF	0.06 pF	[1]		
Output Bias Voltage		10 to 14 VDC	10 to 14 VDC			
Impedance(Output)		<55 Ohm	<55 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 3.5 in	13 mm x 89 mm			
Weight		1.45 oz	41 g	[1]		
Electrical Connector		BNC Jack	BNC Jack			
Mounting Thread(Microphone to Preamplifier)		0.4606 - 60 UNS	11.7 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.						
						
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