



Model Number HT426E01	MICROPHONE PREAMPLIFIER			Revision NR ECN #:										
Performance	ENGLISH	SI		Optimal Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)										
Nominal Microphone Diameter	1/2"	1/2"		Notes [1] Typical. [2] Maximum. [3] Measured with a 12 pF reference microphone. [4] At 22 °C [5] At 120 °C [6] TEDS Capable Digital Memory and Communication, compliant with IEEE P1451.4 [7] See PCB Declaration of Conformance PS065 for details.										
Gain (re 1 kHz)	-0.06 dB	-0.06 dB	[1][3]											
Frequency Response (±0.1 dB) (re 1 kHz)	6.3 to 126000 Hz	6.3 to 126000 Hz	[3][4]											
Frequency Response (-3 dB) (re 1 kHz)	<1.58 Hz	<1.58 Hz	[3][4]											
Frequency Response (±0.1 dB) (re 1 kHz)	10 to 126000 Hz	10 to 126000 Hz	[3][5]											
Phase Linearity (±1 °)	63 to 40000 Hz	63 to 40000 Hz	[3]											
Phase Linearity (<+10 °)	10 to 63 Hz	10 to 63 Hz	[3]											
Electrical Noise (at 22 °C) (A-weight)	≤4.9 μV	≤4.9 μV	[3]											
Electrical Noise (at 22 °C) (A-weight)	3.1 μV	3.1 μV	[1][3]											
Electrical Noise (at 22 °C) (Flat 20 Hz to 20 kHz)	≤13.4 μV	≤13.4 μV	[3]											
Electrical Noise (at 22 °C) (Flat 20 Hz to 20 kHz)	9.3 μV	9.3 μV	[1][3]											
Electrical Noise (at 120 °C) (A-weight)	≤9.6 μV	≤9.6 μV	[3]											
Electrical Noise (at 120 °C) (A-weight)	6.4 μV	6.4 μV	[1][3]											
Electrical Noise (at 120 °C) (Flat 20 Hz to 20 kHz)	≤37.1 μV	≤37.1 μV	[3]											
Electrical Noise (at 120 °C) (Flat 20 Hz to 20 kHz)	24.7 μV	24.7 μV	[1][3]											
Distortion (3 V rms input at 1 kHz)	<-70 dB	<-70 dB	[3]											
Output Slew Rate	2 V/μS	2 V/μS	[1]											
TEDS Compliant	Yes	Yes	[6]											
Environmental														
Temperature Range (Operating)	-40 to +248 °F	-40 to +120 °C												
Temperature Response	±0.1 dB	±0.1 dB	[2]											
Humidity Range (Non-Condensing)	0 to 95 %RH	0 to 95 %RH												
Humidity Sensitivity	±0.1 dB	±0.1 dB	[2]											
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														
Housing Material	Stainless Steel	Stainless Steel												
Size (Diameter x Length)	0.5 in x 3.5 in	13 mm x 89 mm												
Electrical Connector	BNC Jack	BNC Jack												
Mounting Thread (Microphone to Preamplifier)	0.4606 - 60 UNS	11.7 mm - 60 UNS												
				<table border="1"> <tr> <td>Entered: LLH</td> <td>Engineer: MO</td> <td>Sales: BAM</td> <td>Approved: LLH</td> <td>Spec Number:</td> </tr> <tr> <td>Date: 03/18/2008</td> <td>Date: 03/18/2008</td> <td>Date: 03/18/2008</td> <td>Date: 03/19/2008</td> <td>39276</td> </tr> </table>	Entered: LLH	Engineer: MO	Sales: BAM	Approved: LLH	Spec Number:	Date: 03/18/2008	Date: 03/18/2008	Date: 03/18/2008	Date: 03/19/2008	39276
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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.

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