Model Number EX682M 95

DIFFERENTIAL DIN RAIL CHARGE AMPLIFIER

Revision: NR ECN #: 50514

EXOCEINISS			
Performance	ENGLISH	SI	
Sensitivity(+/- 5 %)	1 mV/pC	1 mV/pC	
Input Range	+/- 2,500 pC	+/- 2,500 pC	
Low Frequency Response(- 3 dB)	5 Hz	5 Hz	[1][2]
High Frequency Response(- 3 dB)	10 kHz	10 kHz	[3][2]
Amplitude Linearity	1 %	1 %	
Environmental			
Temperature Range(Operating)	-40 to +176 °F	-40 to 80 ℃	
Temperature Response	≤ 1 %	≤ 1 %	
Relative Humidity(Non Condensing)	< 95 %	< 95 %	
Electrical			
Excitation Voltage	22 to 28 VDC	22 to 28 VDC	
Output Bias Voltage	10 to 12 VDC	10 to 12 VDC	
Output Voltage	+/- 2.5 Vpk	+/- 2.5 Vpk	
Constant Current Excitation	3.1 to 4.1 mA	3.1 to 4.1 mA	
Broadband Electrical Noise(1 to 10,000 Hz)	330 μV	-70 dB	[4]
Spectral Noise(1 Hz)	10 μV/√Hz	-100 dB	[4]
Spectral Noise(10 Hz)	15 μV/√Hz	-96 dB	[4]
Spectral Noise(100 Hz)	5 μV/√Hz	-106 dB	[4]
Spectral Noise(1 kHz)	5 μV/√Hz	-106 dB	[4]
Spectral Noise(10 kHz)	5 μV/√Hz	-106 dB	[4]
Discharge Time Constant	> 0.02 sec	> 0.02 sec	
Resistance	> 50,000 Ohm	> 50,000 Ohm	
Source Capacitance Loading	0.0003 %/pF	0.0003 %/pF	
Output in Relation to Input	In Phase	In Phase	
Physical			
Mounting	DIN Rail	DIN Rail	
Case Material	Injected Molded Nylon	Injected Molded Nylon	
Weight	5.1 oz	145 gm	
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OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

NOTES:

- [1] The low frequency tolerance is accurate within $\pm 20\%$ of the specified frequency.
- [2]12dB/Octav
- [3] The high frequency tolerance is accurate within $\pm 20\%$ of the specified frequency.
- [4]Tested using voltage source and input capacitor equal to the feedback capacitor, to simulate a charge output sensor. Values are typical.
- [5]See PCB Declaration of Conformance PS123 for details.





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.

 Entered: LK
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