

E1001 Single Channel Airborne Charge Amplifier

Characteristics

- Dedicated to E522, E533 and E540 high temperature vibration sensors
- Low noise, high impedance input
- Two paragraphs gain optional: 10mV/pC&1mV/pC
- 3Hz–10kHz frequency response Suitable for flight and airborne testing



Typical Applications

- Used for vibration test on the high temperature parts of Aviation engine
- Used for vibration measurement on high temperature parts of turbine engine

Input Characteristics	
Minimum Input Impedance	50 kΩ
Maximum effective input charge	5000 pC
Output Characteristics	
Output Impedance	50Ω
DC Bias	8 ~ 10VDC
Output maximum current	15mA
Linear output voltage	10V pk
Ultimate output voltage	15V pk
Non-linearity	±2%
Transfer characteristics	
Gain	1 mv/pC
Gain Error	±2%
Frequency Response	3 ~ 10000 Hz
Lower cut-off frequency	2Hz
Upper cut-off frequency	17Hz
Power characteristics	
DC current	18 ~ 36VDC
DC current	15mA
Physical characteristics	
Working temperature	–40 ~ +80℃
Case material	Aluminium Alloy

