

E1002 Three Channels Airborne Charge Amplifier

Characteristics

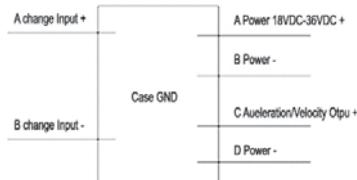
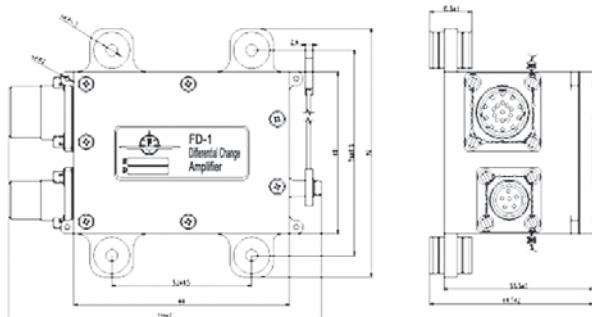
- Dedicated to E522, E533 and E540 high temperature vibration sensors
- Low noise, high impedance input ● 3Hz–10kHz frequency response
- Acceleration and Velocity output: 10mV/pC&1mV/pC Used for flight and airborne testing



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	50kΩ
Maximum effective input charge	5000pC
Output Characteristics	
Output Impedance	50Ω
DC Bias	0 ~ 7 and 0 ~ 9 (Optional) VDC
Output maximum current	15mA
Linear output voltage(VAC)	7V pk
Ultimate output voltage(VAC)	10V pk
Non-linearity	± 2%
Transfer characteristics (Reference Frequency 160Hz)	
Acceleration Gain	10mV/pC
Acceleration Gain Error	± 2%
Velocity Gain	10mV/IPS/pC/g
Velocity Gain Error	± 2%
Frequency response (± 5%)	3 ~ 10000Hz
Lower cut-off frequency	2Hz
Upper cut-off frequency	10kHz
Power characteristics	
DC voltage power supply	18 ~ 36VDC
DC current	100mA
Physical characteristics	
Working temperature	-55 ~ +110°C
Size	See the appended drawing
Case material	Aluminium Alloy



Description:

1. Amplifier is dedicated to E522, E533, E540 high temperature piezoelectric vibration sensor.
2. Input and output sockets: J599/20WA35PC and J599/20WC35PN.
3. This charge amplifier requires shield grounding, the recommended longest length of the input cable is less than 30 m.