



Charge Amplifier(Mini)

Model: YE5851A/B/C

Brief Introduction:

Small, rugged, quakeproof, hermetic; Suitable for laboratories and fields test; Fixed gain and sensitivity normalized;

YE5851A: Dual power supply

YE5851B: Single power supply

YE5851C: Dual power supply, Differential charge input

Features:

- Small, rugged, hermetic, quakeproof;
- Small size, high integration;
- High gain, wide frequency band;
- Fixed low pass filter;
- Adjustable transducer sensitivity;
- Output short circuit protection



Specifications:

Input Range	Charge: $\pm 10^3$ pC (Max)
Output Range	± 10 VP/5mA (Max)
DC Offset	YE5851A/C: ± 50 mV(dual power) YE5851B: $\frac{1}{2}V_{CC} \pm 50$ mV(single power)
Overload Impedance	$\geq 2k\Omega$
Noise	≤ 0.01 pC(When source capacitance is 1nF, referred to input)
Gain	1-100mV/pC(default: 100 mV/pC)
Accuracy	$\pm 1\%$
Transducer sensitivity adjustment	Built-in calibration resistance(the Gain of amplifier is set 100 mV/pC, or made normalization according matched sensor's sensitivity)
Low Pass Filter	≤ 900 kHz (:-3dB ± 1 dB, -12dB/OCT)
High Pass Filter	5Hz(-3dB ± 1 dB, -6dB/OCT)
Temperature	Operating: 0°C to 40°C; Storage: -55°C to 85°C
Humidity	95%R.H.(Max)
Power Supply	YE5851A/C: ± 6 to ± 15 VDC; YE5851B: +12 to +30VDC
Dimensions	50mmW $\times$ 32mmH $\times$ 100mmD
Weight	0.25Kg
Connection	Input: YE5851A/B:L5; YE5851C: four-core special input socket Output: 4-Pin plug
Input Cable	YE5851A/B: double-ended L5 STYV-2 low noise cable(2m) YE5851C: special input cable
Output Cable	Four-pin cable with aviation plug