



Charge Amplifier(Double Integral)

Model: YE5858

Features:

- Acceleration, Velocity, Displacement could be tested
- Small size and high integration
- Three decimal-system normalization output(1-109.9 pC/m/s²)
- Switchable for Gain, HPF , LPF
- Low noise, high accuracy
- Charge or Voltage input
- Overload indication (5VP)
-

Specifications:



Input Range	Voltage: $\pm 5\text{VP}(\text{Max})$; Charge: $\pm 0.5 \times 10^5 \text{ PC}(\text{Max})$
Output Range	$\pm 5\text{VP}/5\text{mA}(\text{Max})$
Noise	$\leq 5\mu\text{V}$ (The max gain is converted into the input end)
Distortion	$<1\%$ (output when the frequency is 10kHz, capacitance load is 10nF full-amplitude)
Overload Indication	Output exceeds $\pm 5\text{Vp}$, illuminant diode turns bright
Gain	1;10;100;1000mV/pC(power capacitance:1nF)
Accuracy	Acceleration: $\leq \pm 1\%$ (inherent tolerance), $\leq \pm 2\%$ (operating tolerance) Velocity: $\leq \pm 3\%$ (inherent tolerance), $\leq \pm 5\%$ (operating tolerance), Displacement: $\leq \pm 5\%$ (inherent tolerance), $\leq \pm 5\%$ (operating tolerance),
Low Pass Filter	0.3k, 1k, 3k, 10k, 30k, 100kHz ($-3\text{dB} \pm 1\text{dB}$, $-12\text{dB}/\text{Oct}$)
High Pass Filter	A:0.3, 1, 10; V: 1, 10; D:1, 10 ($-3\text{dB} \pm 1\text{dB}$, $-6\text{dB}/\text{Oct}$)
Temperature	Operating: 0°C to $+40^\circ\text{C}$; Storage: -55°C to $+85^\circ\text{C}$
Humidity	95%R.H. (Max)
Power supply	Internal: $6 \times 1.2\text{V}$ ($>1300\text{mA}$); External: $+5\text{V}$ to $+28\text{VDC}$ ($<300\text{mA}$)
Dimensions	70mm(W) $\times$ 132.5mm(H) $\times$ 200mm(D)
Weight	About 1.5Kg
Connections	Input: L5; Output: BNC
Input Cable	One 2m double-ended L5 STYV-1 low noise cable
Output Cable	One 2m double-ended BNC 50 Ω output cable
Power Source Cable	One DC power source cable
Charger	Specific charger(operating voltage:AC90 to 240V)
Battery	1.2V rechargeable battery(inside the instrument)