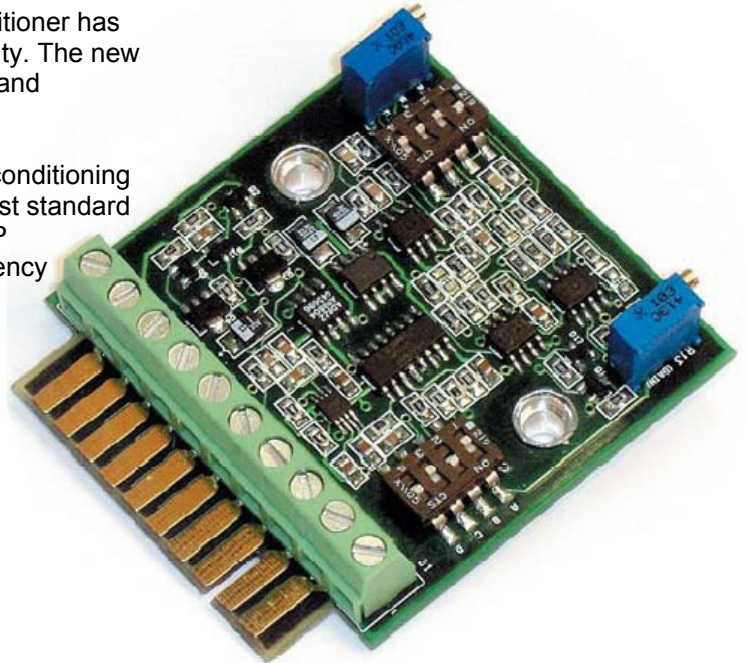




LVDT Voltage module LVM-110

The popular LVM-110, low cost LVDT/RVDT signal conditioner has been re-engineered to improve performance and versatility. The new LVM has increased LVDT drive current capability, to expand compatibility to LVDTs with lower input impedances.

The LVM-110 is designed to be a low-cost LVDT signal conditioning solution for OEM applications, and is compatible with most standard and special design Altheris LVDTs and RVDT's. New DIP switches replace DIP jumpers, simplifying gain and frequency setup procedure. The new discrete circuit topology is optimized for improved signal to noise ratio and tempco, while maintaining form, fit and function backward compatibility with previous versions.



Features

- Small OEM Form Factor
- Low Cost
- Six DIP-Switch Selectable Gains
- 20-Turn Zero and Span Pots
- 100% Zero Suppression
- Card-Edge or Screw Termination
- Master/Slave Capability

Applications

- Position Feedback System
- Test and Measurement
- High Density Dimensional Gaging

Specifications

Power Supply Requirements :

Voltage ± 15 Vdc. $\pm 10\%$ (for ± 10 Vdc output)
 ± 12 to ± 15 Vdc $\pm 10\%$ (for ± 5 Vdc. Output)
 Current 30mA (max)

Transducer Excitation:

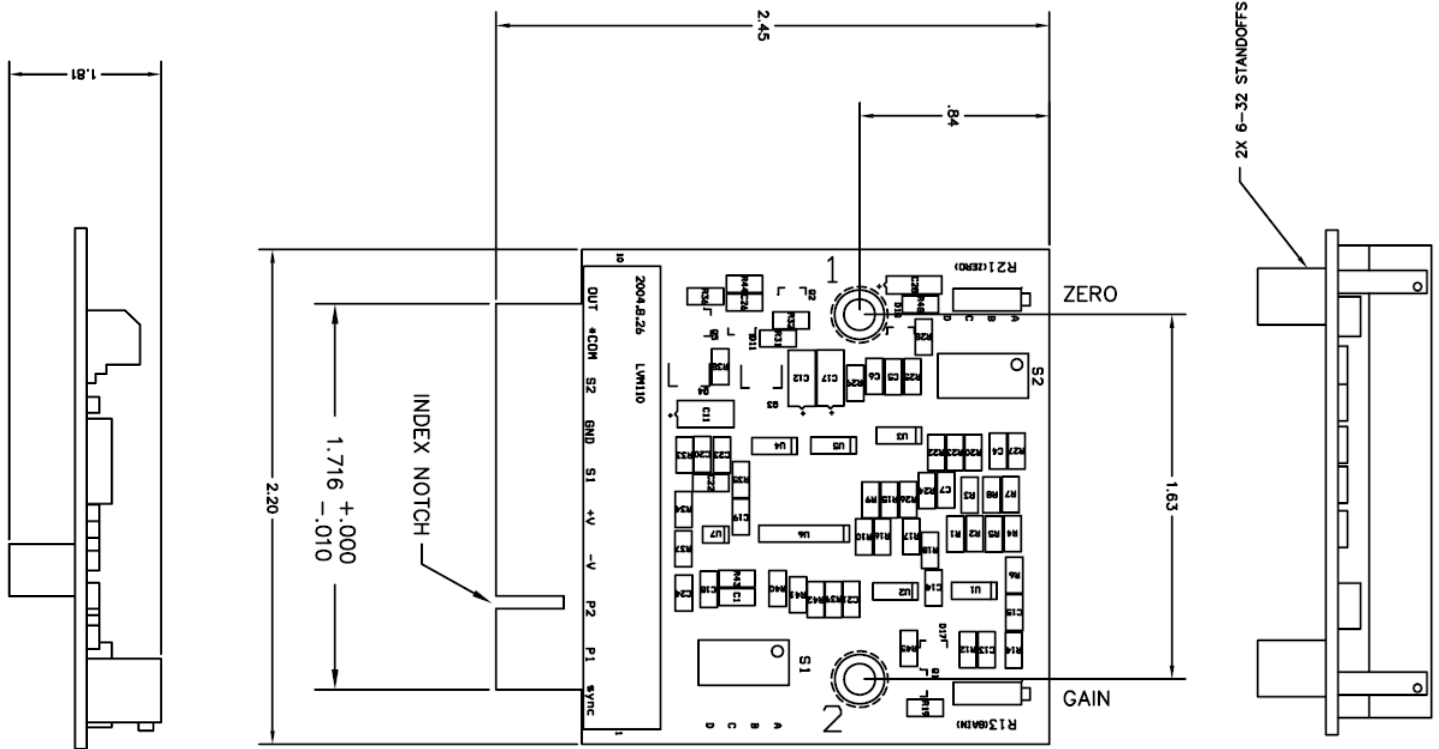
Voltage 3.0 v-rms. $\pm 10\%$
 Current ≤ 20 mA (min LVDT Input impedance 150 Ω)
 Frequency 2.5, 5, 8, 10 kHz
 Position Signal ± 10 , ± 5 , 0 to 10 or 0 to 5 Vdc

Required Signal for ± 10 Vdc

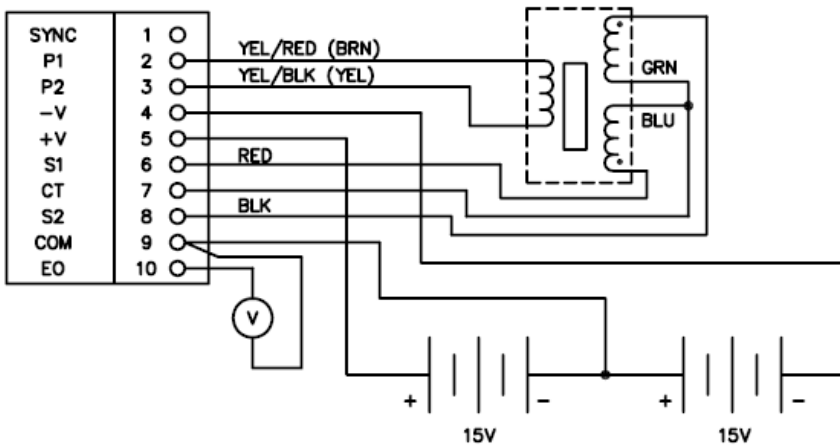
Output:

Minimum 100 mV rms.
 Maximum 5.6 V rms.
 Frequency Response 250 Hz (-3db down low-pass 3-pole Butterworth)
 Linearity $\leq .05\%$
 Operating Temperature 30° to 130° F (-1° to 54° C)
 Storage Temperature -40° to 255° F (-40° to 125° C)
 Tempco $< .02\% / ^\circ\text{F}$
 Zero Suppression ± 6 Vdc
 Output Impedance $< 1 \Omega$
 Noise and Ripple ≤ 15 mV rms.
 Stability .05% of FSO (after 15 min. warm-up)

■ Dimensions (in mm)



■ Wiring



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