

THE UA741 OPERATIONAL AMPLIFIER WITH DIFFERENT BIASES

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ABSTRACT :

Total dose dependence of bias current and offset voltage in the linear operational amplifier $\mu A741$ with different bias is presented in this paper.

The experimental results show that the bias current in the $\mu A741$ with grounded bias is significantly affected by the degradation of the differential input transistors. In addition, the offset voltage is affected by the degradation of bipolar transistors of the current source in the differential input stage.

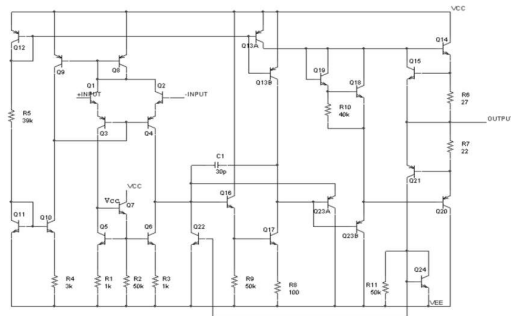


Figure 1. The schematic diagram of the $\mu A741$ operational amplifier.

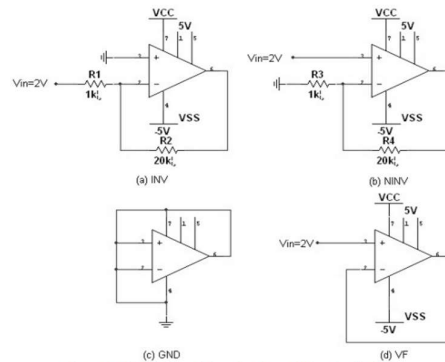


Figure 2. The bias condition of each set during irradiation.

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