

论文

ZnO环形压敏电阻器消噪特性研究及其敏感电压的控制方法

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摘要:

摘要: ZnO环形压敏电阻器广泛应用于消除录音机的噪声. 理论分析表明,在消除大能量噪声方面,突变型压敏电阻器优于缓变型;在消除小能量噪声时,缓变型效果更佳. 本文给出了压敏电压的具体控制方法,对普遍存在的焊后(压)降增大问题提出了解决方案. 实验结果表明,理论分析正确,控制方法简便、有效.

关键词: 压敏电阻器 消噪 缓变型 压敏电压 掺杂 烧结

On noise elimination properties and sensitive voltage control methods of ZnO ring varistors

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Abstract:

ZnO ring varistors are widely used in noise elimination of recorders. Important conclusions achieved by analysis were that the varistors with slow changing I-V curves are better than those with break changing for the elimination of high energy noise of recorders. However, it is quite the contrary for the elimination of low energy noise. The methods and the principles of the varistors sensitive voltage control were presented. Also, solutions of the devises sensitive voltage on a larger scale after being wedded were raised. The experimental results indicate that the analysis is correct and the methods are simple and effective.

Keywords: varistors noise eliminating slow change type sensitive voltage dope sintering

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