

## **Acoustic-electronic cryotron of high velocity**

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<https://doi.org/10.1109/CRMICO.2004.183270>

### **Abstract**

An acoustic-electronic cryotron of high velocity based upon  $\text{YBa}/\text{sub } 2/\text{Cu}/\text{sub } 3/\text{O}/\text{sub } 7/$  superconductor operated by acoustic surface wave (ASW) provides for automatic switchover time period with a fixed step contemporaneously in two opposite directions: clockwise in sections I and III, and counterclockwise in sections II and IV. The ratio of switchover time period step in a cryotron operated by ASW depends on the number of contacts, ASW frequency and contact distribution configuration. Results of a high velocity acoustic-electronic cryotron development with automatic switchover time period are presented.