



Card Code	Part No.	Circuit Use
GQ--	371515	CBL

### Core Buffer Integrator

The GQ-- card consists of five special integrator networks designed for use with the card scanning core buffer card (GM--). Each integrator network serves as a coupling circuit between the card reader brush position and the input winding of a core buffer position.

### Circuit Description

When a hole is sensed in the card and the electronic CB is gated on, sufficient current (100ma) flows through the input winding to set the core position. D23 and D21

act as isolation diodes between the core buffer and the input circuits, and prevent transient noise signals from affecting the core buffer operation. These integrator networks also prevent back circuits between brush positions.

C2 charges to +48v when the brush senses a hole in the card and compensates for possible brush bounce during the time the electronic circuit breaker is made. It also serves as a high-frequency filter for noise transients. R22 and R20, returned to -20v, allow C2 to charge quickly to +48v when the brush first senses a hole in the card.