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DESCRIPTION

The 33R3750A is a custom designed BiCMOS integrated circuit. It contains the servo algebra functions and the channel preamplifier for an optical disk drive system. It is available in a 32-Lead TQFP package.

FEATURES

GENERAL

- Power supply range (4.5 to 5.5 V)
- Low power operation (250 mW typical @ 5 V)
- Small footprint 32-Lead TQFP package

SERVO

- 1 MHz bandwidth
- Low impedance input buffer with nom 4X gain
- SUM signal used to detect media defects
- Servo algebra signals used for optical alignment, seeking, focusing, and track following are: Alignment Error Signal (AES), Tracking Error Signal (TES), Focus Error Signal (FES)

CHANNEL

- 40 MHz bandwidth
- Switching time between ROM and MO 100 ns (max)
- Control lines for switching between ROM and MO modes and for gain selection
- Differential ROM/MO signal output

BLOCK DIAGRAM

