

LCD PANEL EMI Reduction IC

FEATURES

- Provides up to 20 dB of EMI suppression
- Generates a low EMI spread spectrum clock of the input frequency from 40 MHz to 85 MHz
- Optimized for VGA, SVGA and high resolution XGA, SXGA LCD panels
- Internal loop filter minimizes external components and board space
- 4 selectable spread ranges, 2 selectable modulation rates and Spread spectrum ON/OFF control pin.
- Low cycle-to-cycle jitter
- Wide operating range (3V to 5V)
- 16 mA output drives
- TTL or CMOS compatible output
- 8 pin SOIC and TSSOP packages.

PRODUCT DESCRIPTION

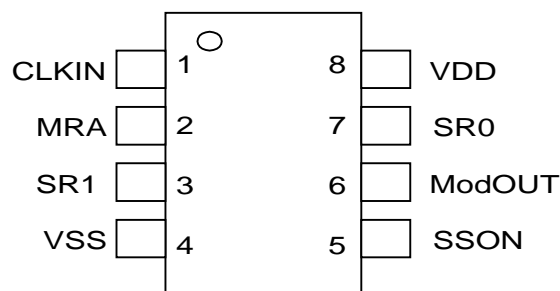
The P2040 is a versatile spread spectrum frequency modulator.

The P2040 reduces electromagnetic interference (EMI) at the clock source by spreading the energy spectrum of a synthesized clock over a wider band thereby reducing the peak measured emissions of the source. This provides system wide reduction of EMI of all clock dependent signals.

APPLICATIONS

The P2040 is targeted towards digital flat panel applications for Notebook PCs, Palm-size PCs, Office Automation Equipment, LCD Monitors, Digital Still Cameras and GPS devices..

Figure 1 – P2040 Pin Diagram



The P2040 allows significant system cost savings by reducing the number of circuit board layers and shielding that are traditionally required to pass EMI regulations.

The P2040 uses the most efficient and optimized modulation profile approved by the FCC and is implemented in a proprietary all-digital method.

Figure 2 – P2040 Block Diagram

