

Product Overview

PCS3P25811A: Spread Spectrum Clock Generator

For complete documentation, see the data sheet.

The PCS3P25811/12/14 devices are versatile spread spectrum frequency modulators designed specifically for a wide range of input clock frequencies from 4MHz to 32MHz. The PCS3P25811/12/14 reduce electromagnetic interference (EMI) at the clock source, allowing system wide reduction of EMI of down stream clock and data dependent signals. It allows significant system cost savings by reducing the number of circuit board layers, ferrite beads, shielding, and other passive components that are traditionally required to pass EMI regulations.

PCS3P25811/12/14 can generate an EMI reduced clock from crystal, ceramic resonator, or system clock.

PCS3P25811/12/14 have 2 pins S0 and S1 to control the selection of Center Spread, Down Spread and No-Spread functions. Additionally there is a 3 level logic control FSEL, for selecting one of the three different frequency ranges within the operating frequency range.

Features

- Generates a 1x (PCS3P25811), 2x (PCS3P25812) and 4x(PCS3P25814) low EMI spread spectrum clock of the input frequency
- Selectable spread options: Down Spread and Center Spread
- Low inherent Cycle-to-Cycle Jitter

Applications

- EMI management in applications such as LCD Panels, MFPs, Digital copiers, Networking, PC peripheral devices

End Products

- Consumer electronics
- Embedded controller systems

Part Electrical Specifications

Product	Compliance	Status	V _{DD} Typ (V)	f _{in} Typ (MHz)	f _{out} Typ (MHz)	Deviation Type	Features	T _A Min (°C)	T _A Max (°C)	Package Type
PCS3P25811AG08SR	Pb-free Halide free	Active	3.3	4-32	4-32	±0.3 to ±1.4 -0.5 to -3.0	ModOUT=1 x Input Clock	0	70	SOIC-8

For more information please contact your local sales support at www.onsemi.com.

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