

Description

This document details the custom configuration that is programmed into the one-time-programmable (OTP) memory of the 9FGV1002CQ506LTGI. Please refer to the device datasheet for further information about the device.

General Configuration

Parameter	Value	Units
Device I ² C Address	Primary 0xD0	—
Default Configuration at I ² C Mode	0	—

Frequency Overview

Parameter	Configuration 0	Configuration 1	Configuration 2	Configuration 3	Units
Input	50	50	50	50	MHz
REF 0	—	—	—	—	—
REF 1	—	—	—	—	—
Output 0	100	100	100	100	MHz
Output 1	100	100	100	100	MHz
Output 2	100	100	100	100	MHz
Output 3	100	100	100	100	MHz

Configuration 0 Parameters: SEL[1:0] = 00

Input frequency: 50MHz; crystal load capacitance: 8.19pF

Parameter	REF 0	REF 1	Output 0	Output 1	Output 2	Output 3	Units
Frequency	50	50	100	100	100	100	MHz
Default Output Status	Off	Off	On	On	On	On	—
VDDO Voltage	Low	Low	1.8	1.8	1.8	1.8	V
Output Type	LVC MOS	LVC MOS	LP-HCSL	LP-HCSL	LP-HCSL	LP-HCSL	—
Spread Spectrum	—	—	—	—	—	—	%
Spread Spectrum Modulation	—	—	—	—	—	—	kHz
LP-HCSL Impedance	—	—	100	100	100	100	Ω

Configuration 1 Parameters: SEL[1:0] = 01

Input frequency: 50MHz; crystal load capacitance: 8.19pF

Parameter	REF 0	REF 1	Output 0	Output 1	Output 2	Output 3	Units
Frequency	50	50	100	100	100	100	MHz
Default Output Status	Off	Off	On	On	On	On	—
VDDO Voltage	Low	Low	1.8	1.8	1.8	1.8	V
Output Type	LVC MOS	LVC MOS	LP-HCSL	LP-HCSL	LP-HCSL	LP-HCSL	—
Spread Spectrum	—	—	-0.1	-0.1	-0.1	-0.1	%
Spread Spectrum Modulation	—	—	31.5	31.5	31.5	31.5	kHz
LP-HCSL Impedance	—	—	100	100	100	100	Ω

Configuration 2 Parameters: SEL[1:0] = 10

Input frequency: 50MHz; crystal load capacitance: 8.19pF

Parameter	REF 0	REF 1	Output 0	Output 1	Output 2	Output 3	Units
Frequency	50	50	100	100	100	100	MHz
Default Output Status	Off	Off	On	On	On	On	—
VDDO Voltage	Low	Low	1.8	1.8	1.8	1.8	V
Output Type	LVC MOS	LVC MOS	LP-HCSL	LP-HCSL	LP-HCSL	LP-HCSL	—
Spread Spectrum	—	—	-0.3	-0.3	-0.3	-0.3	%
Spread Spectrum Modulation	—	—	31.5	31.5	31.5	31.5	kHz
LP-HCSL Impedance	—	—	100	100	100	100	Ω

Configuration 3 Parameters: SEL[1:0] = 11

Input frequency: 50MHz; crystal load capacitance: 8.19pF

Parameter	REF 0	REF 1	Output 0	Output 1	Output 2	Output 3	Units
Frequency	50	50	100	100	100	100	MHz
Default Output Status	Off	Off	On	On	On	On	—
VDDO Voltage	Low	Low	1.8	1.8	1.8	1.8	V
Output Type	LVC MOS	LVC MOS	LP-HCSL	LP-HCSL	LP-HCSL	LP-HCSL	—
Spread Spectrum	—	—	-0.5	-0.5	-0.5	-0.5	%
Spread Spectrum Modulation	—	—	31.5	31.5	31.5	31.5	kHz
LP-HCSL Impedance	—	—	100	100	100	100	Ω

Package Outline Drawings and Marking Diagrams

Refer to the [datasheet](#) for detailed information pertaining to package outline drawings and marking diagrams.

Ordering Information

Orderable Part Number	Carrier Type	Temperature	Crystal
9FGV1002CQ506LTGI	Tray	-40° to +85°C	50MHz Internal
9FGV1002CQ506LTGI8	Tape and Reel	-40° to +85°C	50MHz Internal

Revision History

Revision Date	Description of Change
September 16, 2020	Initial release.

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