S9S12G96F0CLF Information

Product Summary Page

- **General Information**
- **Package Information**
- **Environmental and Compliance Information**
- **Manufacturing Information**
- **Ordering Information**
- **Operating Characteristics**
- **Reliability Data Lookup**

General Information

Parameter	Value
Part Number	S9S12G96F0CLF
Description	16BIT 96K FLASH
Material Type	Tested Packaged Device
Life Cycle Description (code)	PRODUCT RAPID GROWTH
Status	Active
Application/Qualification Tier	COMMERCIAL, INDUSTRIAL, AUTOMOTIVE

Package Information

Parameter	Value
Package Description and Mechanical Drawing	**LQFP 48 7*7*1.4P0.5**
Device Weight (g)	.17825
Pin/Lead/Ball Count	48
Package Material	Plastic
Mounting Style	Surface Mount
Package Length (nominal) (mm)	7.000
Package Width (nominal) (mm)	7.000
Package Thickness (nominal) (mm)	1.400
Maximum Height Above Board (mm)	1.600
Tape & Reel	No

Environmental and Compliance Information

Parameter	Value
Pb-Free	
RoHS Compliant	
Halogen Free	Yes

Material Composition Declaration (MCD)	**Download MCD Report** **Download MCD Report**
RoHS Certificate of Analysis (CoA)	**Download RoHS CoA Report**
2nd Level Interconnect	**e3**
Moisture Sensitivity Level (MSL)	3
Floor Life	168 HOURS
Peak Package Body Temperature (PPT)(°C)	260
Maximum Time at Peak Temperature (s)	40
Number of Reflow Cycles	3
REACH SVHC	**Freescale REACH Statement**
UL94 (plastics flammability test)	V0: burning stops within 10 seconds on a vertical specimen; no drips allowed

Manufacturing Information

Parameter	Value
Micron Size (µm)	.18

Ordering Information

Parameter	Value
Minimum Package Quantity (MPQ)	250
MPQ Container	TRAY
Preferred Order Quantity (POQ)	1250
POQ Container	BOX
Leadtime (weeks)	23
Export Control Classification Number (US)	3A991
Harmonized Tariff (US) **Disclaimer**	8542.31.0000

Order	

Operating Characteristics

Parameter	Value
A/D Converter - Bits (bit)	10
A/D Converter - Channels	12
	Watchdog OSC/Timer Real-Time Clock

Additional Features	PLL Low Voltage Detect Internal Voltage Regulator Internal Clock Generator
Ambient Operating Temperature (Min-Max) (°C)	-40 to 85
Bus Frequency (Max) (MHz)	25
CAN	MSCAN12
Core: Operating Frequency Max (Max) (MHz)	25
Core: Type	HCS12
Device Type	MCU
EEPROM (kByte)	3
I/O Pins	40
Internal Flash (kByte)	96
Internal RAM (kByte)	8
Pulse Width Modulators - Bits (bit)	8
Pulse Width Modulators - Channels	8
Sample Exception Availability	Y
Serial Interface - Number of Interfaces	1 3 3
Serial Interface - Type	CAN SCI SPI
Supply Voltage (Min-Max) (V)	3.13 to 5.5
Timer Features	Input Capture Output Compare PWM
Timers - Channels	8
Timers - Number of Timers	1
Timers - Size (bit)	16

Reliability Data Lookup