

SSS12XF512J1MLHR Information

- [General information](#)
- [Package information](#)
- [Environmental and Compliance information](#)
- [Manufacturing and Qualification information](#)
- [Ordering information](#)
- [Product/Process Change Notice \(PCN\)](#)
- [Operating Characteristics](#)

General Information

Parameter	Value
Part Number	S9S12XF512J1MLHR
Description	512K 180SGF, 32K RAM
Product Line	G9FXFX5A
PTI	JCXF
Material Type	Tested Packaged Device
<a href="#">Life Cycle Description (code)</a>	PRODUCT NEWLY INTRO D/RAMRUP(1)
Status	Active

Package Information

Parameter	Value
Package Description	<a href="#">LQFP 64 10*10*1.4P0.5</a>
JEDEC Pkg Description	FL-PQFP-G64
Pin/Lead/Ball Count	64
Package Material	Plastic
Mounting Style	Surface Mount
Tape & Reel	Yes

Environmental and Compliance Information

Parameter	Value
<a href="#">Pb-Free</a>	
<a href="#">RoHS Compliant</a>	
<a href="#">Halogen Free</a>	Yes
<a href="#">Material Composition Declaration (MCD)</a>	<a href="#">Download IPC-1752 Report</a>
<a href="#">RoHS Certificate of Analysis (CoA)</a>	<a href="#">Contact Us</a>
<a href="#">2nd Level Interconnect</a>	e3
<a href="#">Moisture Sensitivity Level (MSL)</a>	3
<a href="#">Floor Life</a>	168 HOURS
<a href="#">Package Peak Temperature (°C)</a>	260

Manufacturing and Qualification information

Parameter	Value
<a href="#">Micron Size (µm)</a>	.18
<a href="#">Application/Qualification Tier</a>	COMMERCIAL, INDUSTRIAL, AUTOMOTIVE

Ordering Information

Parameter	Value
Minimum Package Quantity (MPQ)	1500
MPQ Container	REEL
Export Control Classification Number (US)	EAR99
<a href="#">Harmonized Tariff (US Disclaimer)</a>	8542.31.0000
<a href="#">Budgetary Price QTY 1000+ (\$US)</a>	-

Product/Process Change Notice (PCN)

Number	Type	Title	Issue Date	Effectivity Date
13396	Product Bulletin	<a href="#">EEE Firmware Update For S12XE &amp; S12XF Families</a>	01 Oct 2008	11 Oct 2008

Operating Characteristics

Parameter	Value
A/D Converter - Bits (bit)	12
A/D Converter - Channels	8
A/D Converter Y/N	Yes
Additional Features	POR PLL Low Voltage Detect LVI Internal Voltage Regulator Internal Clock Generator COP BDM
Ambient Operating Temperature (Ta) (Max) (°C)	125
Ambient Operating Temperature (Ta) (Min) (°C)	-40
Bus Frequency (Max) (MHz)	50
CAN	CAN 2.0 A/B
Co Processor Frequency (Max) (MHz)	100
Co Processor Type	XGATE
Core - Number of Cores (Spec)	1
Core - Operating Frequency (Max) (MHz)	50
Core - Type	HCS12X
Device Type	MCU
EEPROM (Byte)	4000
Internal Flash (Byte)	512000
Internal RAM (Byte)	32000
Pulse Width Modulators - Bits (bit)	15
Pulse Width Modulators - Channels	6
Serial Interface - Number of Interfaces	1 1 1
Serial Interface - Type	CAN SCI SPI
Standby Function	STOP WAIT
Supply Voltage (Max) (V)	5.5
Supply Voltage (Min) (V)	3.13
Supply Voltage (Typ) (V)	5
Timer	Output Compare Input Capture
Timers - Channels	8
Timers - Number of Timers	1
Timers - Size (bit)	16