

S9S12XF512J1MLMR Information

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General Information

Parameter	Value
Part Number	S9S12XF512J1MLMR
Description	512K 180SGF,32K RAM
Product Line	G9FXFX5B
PTI	JCXF
Material Type	Tested Packaged Device
Life Cycle Description (code)	PRODUCT NEWLY INTRO D/RAMRUP(1)
Status	Active

Package Information

Parameter	Value
Package Description	LQFP 112 20*20*1.4P0.65
JEDEC Pkg Description	L-PQFP-G112
Pin/Lead/Ball Count	112
Package Material	Plastic
Mounting Style	Surface Mount
Tape & Reel	Yes

Environmental and Compliance Information

Parameter	Value
Pb-Free	
RoHS Compliant	
Halogen Free	Yes
Material Composition Declaration (MCD)	Download IPC-1752 Report
RoHS Certificate of Analysis (CoA)	Contact Us
2nd Level Interconnect	e3

Manufacturing and Qualification information

Parameter	Value
Micron Size (µm)	.18
Application/Qualification Tier	COMMERCIAL, INDUSTRIAL, AUTOMOTIVE

Ordering Information

Parameter	Value
Minimum Package Quantity (MPQ)	500
MPQ Container	REEL
Export Control Classification Number (US)	EAR99
Harmonized Tariff (US) Disclaimer	8542.31.0000
Budgetary Price QTY 1000+ (\$US)	-

Product/Process Change Notice (PCN)

Number	Type	Title	Issue Date	Effectivity Date
13396	Product Bulletin	EEE Firmware Update For S12XE & S12XF Families	01 Oct 2008	11 Oct 2008

Operating Characteristics

Parameter	Value
A/D Converter - Bits (bit)	12
A/D Converter - Channels	16
A/D Converter/Yes/No	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 2 2
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