

S912ZVLA64F0MLF :Part Detail

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General Information

Part Number	S912ZVLA64F0MLF
Description	MagniV 16-bit MCU, S12Z core, 64KB Flash, 32MHz, -40/+125degC, Automotive Qualified, QFP 48
Product Line	G9FZVL8A
PTI	JCHG
Material Type	Tested Packaged Device
Life Cycle Description (code) (/webapp/sps/site/eialink.jsp)	PRODUCT RAPID GROWTH
Status	Active
Application/Qualification Tier (/webapp/sps/site/aqtlink.jsp?type=pop_up)	AUTO; >=10 YEARS APPLICATION LIFE

Package Information

Package Type and Termination Count	QFP 48
Package Description and Mechanical Drawing	LQFP 48 7*7*1.4P0.5
Device Weight(g)	0.17825
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

Pb-Free (http://www.nxp.com/webapp/sps/utis/showCollateral.jsp?code=PBFREE_INFO&type=pop_up)	
RoHS Compliant (http://www.nxp.com/webapp/sps/utis/showCollateral.jsp?code=ROHS_INFO&type=pop_up)	
Halogen Free (http://www.nxp.com/webapp/sps/utis/showCollateral.jsp?code=HALOGEN_FREE_INFO)	Yes
Material Composition Declaration (MCD) (http://www.nxp.com/webapp/sps/utis/showCollateral.jsp?code=ROHS_MCD&type=pop_up)	Download MCD Report (/mcds/S912ZVLA64F0MLF.pdf) Download MCD Report (/mcds/S912ZVLA64F0MLF.xls)
RoHS Certificate of Analysis (CoA)	Download RoHS CoA Report (http://www.nxp.com/webapp/search.partsourcedetail.framework?PART_NUMBER=S912ZVLA64F0MLF)
2nd Level Interconnect (http://www.nxp.com/webapp/sps/utis/showCollateral.jsp?code=PLATING_INDICATOR_INFO)	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	NXP REACH Statement (/files/corporate/doc/support_info/NXP-REACH-STATEMENT.pdf)
UL94 (plastics flammability test)	V0; Burning stops within 10 seconds on a vertical specimen; no drips allowed

Manufacturing Information

Micron Size(μm)	.18
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Ordering Information

Minimum Package Quantity (MPQ)	1250
MPQ Container	BRICK
Exempt from Minimum Delivery Value	Yes
Preferred Order Quantity (POQ)	2500
POQ Container	BOX
Export Control Classification Number (US)	3A991A2
Harmonized Tariff (US) Disclaimer (/webapp/sps/site/harmTariffDisclaim.jsp)	8542.31.0000
CCATS Document	-
ENC Status	-
Other Trade Compliance Documents	-
Budgetary Price excluding tax(US\$) (/webapp/sps/site/bplink.jsp) Change Currency	-
Order	Similar Samples

Operating Characteristics

5v VREG	1
ADC	10-ch. 12-bit
Ambient Operating Temperature (Min-Max) (°C)	-40 to 125
CAN	1
Core Type	S12Z
EEPROM (KB)	1
GPIOs	34
High Current GPIOs / EVDD	3ch NGPIO (5V/25mA)
High-Voltage Input	1-ch. HVI Vsup-Sense
I2C	1
Internal Flash (KB)	64
Internal RAM (KB)	4
Operating Frequency (Max) (MHz)	32
Physical Layer Interface	LIN-PHY
PWM	4-ch. 16-bit 8-ch. 16-bit
Sample Exception Availability	N

SCI	2
SPI	1
Supply Voltage (Min-Max) (V)	5.5 to 18
Timers	6+2-ch. 16-bit

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