

S912ZVLA12F0MLC :Part Detail

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General Information

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|---|--|
| Part Number | S912ZVLA12F0MLC |
| Description | MagniV 16-bit MCU, S12Z core, 128KB Flash, 32MHz, -40/+125degC, Automotive Qualified, QFP 32 |
| Product Line | G9FZML8B |
| 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 32 |
| Package Description and Mechanical Drawing | LQFP 32 7*7*1.4P0.8 |
| Device Weight(g) | 0.18860 |
| Package Material | Plastic |
| Mounting Style | Surface Mount |
| Package Length (nominal)(mm) | 7.000 |
| Package Width (nominal)(mm) | 7.000 |
| Package Thickness (nominal)(mm) | 1.600 |
| 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/S912ZVLA12F0MLC.pdf) Download MCD Report (/mcds/S912ZVLA12F0MLC.xls) |
| RoHS Certificate of Analysis (CoA) (http://www.nxp.com/webapp/sps/utis/showCollateral.jsp?code=ROHS_COA&type=pop_up) | Contact Us (https://nxpcommunity.force.com/community/communityContactSupport) |
| 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

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|-----------------|-----|
| Micron Size(μm) | .18 |
|-----------------|-----|

Ordering Information

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|--|--------------|
| 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 | |

Operating Characteristics

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|--|------------------------------|
| 5v VREG | 1 |
| ADC | 6-ch. 12-bit |
| Ambient Operating Temperature (Min-Max) (°C) | -40 to 125 |
| CAN | 1 |
| Core Type | S12Z |
| EEPROM(KB) | 2 |
| GPIOs | 19 |
| High Current GPIOs / EVDD | 1ch NGPIO (5V/25mA) |
| High-Voltage Input | 1-ch. HM Vsup-Sense |
| I2C | 1 |
| Internal Flash (KB) | 128 |
| Internal RAM(KB) | 8 |
| 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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