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S912XD128F2VAAR :Part Detail

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General Information

Part Number	S912XD128F2VAAR
Description	16-bit MCU, S12X core, 128KB Flash, 80MHz, -40/+105degC, Automotive Qualified, QFP 80
Product Line	G9GXDG12
PTI	JCXD
Material Type	Tested Packaged Device
Life Cycle Description (code) (/webapp/sps/site/eialink.jsp)	NOT RECOMMENDED(DECLINING)
Status	Not Recommended for New Design
Application/Qualification Tier (/webapp/sps/site/aqtlink.jsp?type=pop_up)	AUTO; >=10 YEARS APPLICATION LIFE

Package Information

Package Type and Termination Count	QFP 80
Package Description and Mechanical Drawing	QFP 80 14*14*2.2P0.65
Device Weight(g)	0.93550
Package Material	Plastic
Mounting Style	Surface Mount
Package Length (nominal)(mm)	14.000
Package Width (nominal)(mm)	14.000
Package Thickness (nominal)(mm)	2.450
Tape & Reel	Yes

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/S912XD128F2VAAR.pdf) Download MCD Report  (/mcds/S912XD128F2VAAR.xls)
RoHS Certificate of Analysis (CoA)	Download RoHS CoAReport (http://www.nxp.com/webapp/search.partspiecedetail.framework?PART_NUMBER=S912XD128F2VAAR)
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)	.25
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Ordering Information

Minimum Package Quantity (MPQ)	750
MPQ Container	REEL
Exempt from Minimum Delivery Value	No
Preferred Order Quantity (POQ)	750
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	

Product/Process Change Notice (PCN)

Number (/webapp/sps/site/ntlink.jsp)	Type	Title	Issue Date	Effectivity Date
16253	Product Change Notice	0.25um ATMC and TSMCFAB3/11 KLM QFP Copper Wire and Leadframe Flag Conversion Qualification (http://cache.freescale.com/files/shared/doc/pcn/PCN16253.htm)	09 Jun 2014	09 Dec 2014

Operating Characteristics

ADC	8-ch. 10-bit
ADC (bit)	10
ADC (ch)	8
Additional Features	POR PLL Low Voltage Detect Internal Voltage Regulator Internal Clock Generator COP
Ambient Operating Temperature (Min-Max) (°C)	-40 to 105
Bus Frequency (Max) (MHz)	40
CAN Type	CAN 2.0 A/B
Co Processor Type	XGATE
Core Type	HCS12X
EEPROM(KB)	2
GPIOs	59

Internal Flash (KB)	128
Internal RAM(KB)	8
Operating Frequency (Max) (MHz)	80
PWM	7-ch. 8-bit
PWM(bit)	8
PWM(ch)	7
Sample Exception Availability	N
Supply Voltage (Min-Max) (V)	3.15 to 5.5
Timer Features	Output Compare Pulse Accumulator Realtime Interrupts Input Capture
Timers	8-ch. 16 bit 8-ch. 24 bit

Reliability Data Lookup

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