

MC9S08DZ48AMLC Information				
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General Information				
Parameter		Value		
Part Number		MC9S08DZ48AMLC		
Description		S08DZ 8-bit MCU, S08 core, 48KB Flash, 40MHz, QFP 32		
Product Line		G9FZDZ61		
PTI		MDTD		
Material Type		Tested Packaged Device		
Life Cycle Description (code)		REMOVED FROM ACTIVE PORTFOLIO		
Status		No Longer Manufactured		
Application/Qualification Tier		10-YEARS APPLICATION LIFE		
Package Information				
Parameter		Value		
Package Type and Termination Count		QFP 32		
Package Description and Mechanical Drawing		LQFP 32 7*7*1.4P0.8		
Device Weight(g)		.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				
Parameter		Value		
Pb-Free				
RoHS Compliant				
Halogen Free		Yes		
Material Composition Declaration (MCD)		Download MCD Report  Download MCD Report 		
RoHS Certificate of Analysis (CoA)		Download RoHS CoA Report		
2nd Level Interconnect		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		Freescale REACH Statement		
UL94 (plastics flammability test)		V0: Burning stops within 10 seconds on a vertical specimen; no drips allowed		
Manufacturing Information				
Parameter		Value		
Micron Size(?m)		.25		
Ordering Information				
Parameter		Value		
Exempt from Minimum Delivery Value		Yes		
Export Control Classification Number (US)		3A991		
Harmonized Tariff (US) Disclaimer		8542.31.0000		
CCATS Document		-		
ENC Status		-		
Other Trade Compliance Documents		-		
Budgetary Price excluding tax(US\$) Change Currency		-		
Device Sample Availability		03 Nov 2008		
Device Production Availability		03 Nov 2008		
Order				
Product/Process Change Notice (PCN)				
Number	Type	Title	Issue Date	Effectivity Date
15932	Product Change Notice	S08DZ60 (32ld) S08DZ128 (48ld) Copper Wire Qualification	06 Nov 2013	06 Nov 2013
15375	Product Bulletin	DZ60 2M74K ERRATA DISTRIBUTION	21 Sep 2012	22 Sep 2012
14886	Product Bulletin	S08DZ60 Input Hysteresis Tuning	03 Oct 2011	12 Oct 2011
14726	Product Change Notice	MC9S08DZ60 IMM Product Mask Revision	09 Jun 2011	07 Sep 2011
14515	Product Change Notice	0.25UM Copper Wire Qualification	26 Apr 2011	10 Sep 2011
13796	Product Bulletin	9S08 D-Family Consumer and Industrial Parts Burn-in Elimination	01 Sep 2009	02 Sep 2009
Operating Characteristics				
Parameter		Value		
Additional Features		COP Low Voltage Detect POR Temperature Sensor Internal Voltage Regulator Analog Comparator		
Ambient Operating Temperature (Min-Max) (°C)		-40 to 125		
Bus Frequency (Max) (MHz)		20		
Core: Type		S08		
EEPROM (KB)		1.5		
GPIOs		26		
Internal Flash (KB)		48		
Internal RAM (KB)		3		
Operating Frequency (Max) (MHz)		40		
Sample Exception Availability		N		
Serial Interface - Number of Serial Interfaces		1		
		1		
		2		
		1		
Serial Interface - Serial Interface Type		CAN I2C SCI SPI		
Supply Voltage (Min-Max) (V)		2.7 to 5.5		
Timer Features		Input Capture Output Compare PWM Watchdog		
Timer type		Real Time Clock		
Timers - Number of Timers		1		
		1		
Timers - Timer Channels		4		
		2		
Timers - Timer Size (bit)		16		
		16		
Reliability Data Lookup				
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