

SPC5742PK1MLQ8 Information	
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General Information	
Parameter	Value
Part Number	SPC5742PK1MLQ8
Description	1.5MB NVM, 2 x e200Z4 cores , 180MHz, 192K SRAM, 4 x ADC, 2 x PWM, 2 x SENT
Product Line	G9F5744P
PTI	JBQH
Material Type	Tested Packaged Device
Life Cycle Description (code)	PRODUCT RAPID GROWTH
Status	Active
Application/Qualification Tier	AUTO; >=10 YEARS APPLICATION LIFE
Package Information	
Parameter	Value
Package Type and Termination Count	LQFP 144
Package Description and Mechanical Drawing	LQFP 144 20SQ1.4P0.5 C90
Device Weight(g)	1.31910
Package Length (nominal)(mm)	20.000
Package Width (nominal)(mm)	20.000
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)	.05
Ordering Information	
Parameter	Value
Minimum Package Quantity (MPQ)	60
MPQ Container	TRAY
Exempt from Minimum Delivery Value	Yes
Preferred Order Quantity (POQ)	600
POQ Container	BOX
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	-
Order	
Operating Characteristics	
Parameter	Value
0000002381	2
A/D Converter - A/D Converter Bits (bit)	12
A/D Converter - A/D Converter Channels	64
Ambient Operating Temperature (Min-Max) (°C)	-40 to 135
CAN	3
Communication Protocol	CAN
Core: Number of cores (Spec)	2
Core: Operating Frequency (Max) (MHz)	180
Core: Type	e200
I/O Pins	79
Internal Flash (KB)	1500
Internal RAM (KB)	192
Sample Exception Availability	N
Serial Interface - Number of Serial Interfaces	3 2 4
Serial Interface - Serial Interface Type	CAN LIN SPI
SPI	4
Supply Voltage (Min-Max) (V)	3.15 to 3.6
Timer Features	eTimer PWM
Timers - Number of Timers	3
Timers - Timer Channels	6
Timers - Timer Size (bit)	16
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