

Freescale – PK40DX256VLL7



General Information

Parameter	Value
Part Number	PK40DX256VLL7
Description	Kinetis 256K USB+SLCD
Product Line	G9FNP13
PTI	JBNC
Material Type	Tested Packaged Device
Life Cycle Description (code)	PRODUCT NEWLY INTRO D/RAMP-UP
Status	Active

Package Information

Parameter	Value
Package Description and Mechanical Drawing	LQFP 100 14SQ1.4P0.5 C90
Device Weight (g)	.68520
Pin/Lead/Ball Count	100
Package Length (nominal) (mm)	14.000
Package Width (nominal) (mm)	14.000
Package Thickness (nominal) (mm)	1.700
Maximum Height Above Board (mm)	1.700
Tape & Reel	No

Environmental and Compliance Information

Parameter	Value
Pb-Free	
RoHS Compliant	
Halogen Free	Yes
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	
UL94 (plastics flammability test)	V0: burning stops within 10 seconds on a vertical specimen; no drips allowed

Manufacturing Information

Parameter	Value
Micron Size (μm)	.09

Operating Characteristics

Parameter	Value
Additional Features	PGA Segment Display Controller Touch Sensing Interface Vref
Ambient Operating Temperature (Min-Max) (°C)	-40 to 105
Analog Comparator	3
Core: Operating Frequency Max (Max) (MHz)	72
D/A Converter - Bits (bit)	12
Debug Features	Serial Wire Debug cJTAG JTAG
EEPROM (kByte)	2
FlexMemory (kByte)	32
I/O Pins	64
Independent ADC modules	2
Internal Flash (kByte)	256
Internal RAM (kByte)	64
Max Simultaneous ADC channels	4 DP 34 SE
Pulse Width Modulators - Channels	12
Sample Exception Availability	Y
Serial Interface - Number of Interfaces	4 2 2 1 1 1
Serial Interface - Type	UART SPI I2C I2S CAN USB
Supply Voltage (Min-Max) (V)	1.71 to 3.6

Timer type	Low Power Timer Periodic Interrupt Timer Programmable Delay Block
Total DMA Channels	16
Total Flash memory (kByte)	288
USB	