

# MKW20Z160VHT4 :Part Detail

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## General Information

Part Number	MKW20Z160VHT4
Description	Kinetis KW20Z: 802.15.4 Wireless Radio MCU, 48MHz Cortex-M0+, 160KB Flash, 20KB RAM, 48-QFN
Product Line	G9WDKW41
PTI	MJNJ
Material Type	Tested Packaged Device
<a href="#">Life Cycle Description (code)</a>	PRODUCT RAPID GROWTH
Status	Active
<a href="#">Application/Qualification Tier</a>	10-YEARS APPLICATION LIFE

## Package Information

Package Type and Termination Count	LGA 48
Package Description and Mechanical Drawing	<a href="#">LamQFN 48 7*7*0.98 P0.5</a>
Device Weight(g)	0.08950
Package Length (nominal)(mm)	7.000
Package Width (nominal)(mm)	7.000
Package Thickness (nominal)(mm)	0.910
Tape & Reel	No

## Environmental and Compliance Information

<a href="#">Pb-Free</a>	
<a href="#">RoHS Compliant</a>	
<a href="#">Halogen Free</a>	Yes
<a href="#">Material Composition Declaration (MCD)</a>	<a href="#">Download MCD Report</a> <a href="#">Download MCD Report</a>
<a href="#">RoHS Certificate of Analysis (CoA)</a>	<a href="#">Download RoHS CoA Report</a>
<a href="#">2nd Level Interconnect</a>	<a href="#">Contact Us</a>
<a href="#">Moisture Sensitivity Level (MSL)</a>	3
<a href="#">Floor Life</a>	168 HOURS

Peak Package Body Temperature (PPT)(°C)	260
Maximum Time at Peak Temperature (s)	40
Number of Reflow Cycles	3
REACH SVHC	<a href="#">NXP REACH Statement</a>
UL94 (plastics flammability test)	V0;Burning stops within 10 seconds on a vertical specimen;no drips allowed

## Manufacturing Information

Micron Size(μm)	.09
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## Ordering Information

Minimum Package Quantity (MPQ)	260
MPQ Container	TRAY
Exempt from Minimum Delivery Value	Yes
Preferred Order Quantity (POQ)	1300
POQ Container	BRICK
Export Control Classification Number (US)	5A992
Harmonized Tariff (	
CCATS Document	<a href="#">G162018~CCATS</a>
ENC Status	Unrestricted
Other Trade Compliance Documents	-
<a href="#">Budgetary Price excluding tax(US Currency)</a>	-

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## Operating Characteristics

16-bit PWM (ch)	6
16-bit Timer (ch)	1
32-bit Timer (ch)	1
ADC	16-bit (SAR) x 1
Ambient Operating Temperature (Min-Max) (°C)	-40 to 85
Core Type	ARM Cortex-M0+
DAC	12-bit x 1
Datarate	250 kbps
DC/DC Converter	Buck/Boost
Debug & Trace	SWD

DMA (ch)	4
GPIOs	28
HW dev. tools	FRDM-KW40Z
I2C	2
Integrated wireless radio	2.4Ghz
On-chip SRAM	20
Operating Frequency (Max) (MHz)	48
Other analog blocks	Comparator
Package type	LGA
Pin pitch (mm)	0.5
PWM Types	Timer PWM (TPM)
Radio Protocol Supported	IEEE 802.15.4
Receive Current (mA)	6.2
RX Sensitivity	-102
Sample Exception Availability	Y
Security	CRC
SPI	2
Total Flash (KByte)	160
Transmit Current (mA)	6.2
UART	1
VDD (Max) (V)	4.2
VDD (Min) (V)	0.9

[Reliability Data Lookup](#)

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