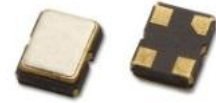


SMD Crystal Oscillator 3.2 × 2.5 mm

FEATURE

- Typical 3.2 x 2.5 x 0.95mm ceramic SMD package.
- Tight symmetry (45 to 55%) available.
- Operation voltage: 1.8V, 2.5V, 3.3V
- Tri-state enable/disable



APPLICATION

WLAN/WiMAX, Mobile Phone, DSC, Set-top Box, HDTV

ELECTRICAL SPECIFICATIONS

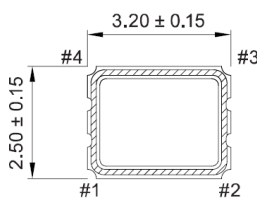
Parameter	3.3V		2.5V		1.8V		Unit	
	Min.	Max.	Min.	Max.	Min.	Max.		
Supply Voltage Variation	3.135	3.465	2.375	2.625	1.71	1.89	V	
Frequency Range	1.25	125	1.25	125	1.25	125	MHz	
Standard Frequency	4,24,26,32,38,40						MHz	
Supply Current(At 15pF Load)	-	15	-	10	-	7	mA	
Duty Cycle	45	55	45	55	45	55	%	
Transition Time : Rise/Fall Time	1.25 MHz ≤ FO < 10MHz	-	3	-	4	-	5	nSec
	10 MHz ≤ FO < 125MHz	-	3	-	3	-	4	
Output Level	Out High(Logic"1")	2.97		2.25		1.62		V
	Out Low(Logic"0")		0.33		0.25		0.18	
Start Time	-	2	-	2	-	2	mSec	
Tri-State (Input to Pin 1)	Enable	2.31	-	1.75	-	1.26	-	V
	Disable	-	0.99	-	0.75	-	0.54	
Period Jitter (Pk-Pk)	-	40	-	40	-	40	pSec	
RMS Phase Jitter (integrated 12KHz to 20MHz)	-	1	-	1	-	1	pSec	
Standby Current(@-40 to 85°C)	-	10	-	10	-	10	µA	
Standby Current(@-40 to 125°C)	-	20	-	20	-	20	µA	
Aging(@25 1st year)	-	±3	-	±3	-	±3	ppm	
Storage Temp. Range	-55	125	-55	125	-55	125	°C	

Standard frequencies are frequencies which the crystal has been designed and does not imply a stock position

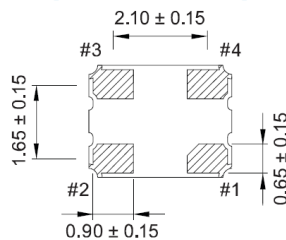
.+ Transition times are measured between 10% and 90% of VDD, with an output load of 15pF.

DIMENSION (mm)

[TOP VIEW]

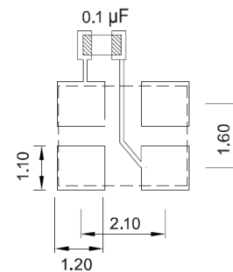
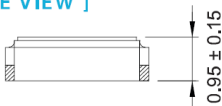


[BOTTOM VIEW]



Pin#	Function
1	Tri-state
2	GND
3	Output
4	VDD

[SIDE VIEW]



To ensure optimal oscillator performance, place a by-pass capacitor of 0.1 µF as close to the part as possible between Vdd and GND pads.

FREQ. STABILITY vs. TEMP. RANGE

ppm / Temp. (°C)	±20	±25	±50
-10 ~ +60	○	○	○
-20 ~ +70	△	○	○
-40 ~ +85	X	○	○
-40 ~ +125	X	X	○

○: Available △: Conditional X: Not available

Inclusive of calibration @ 25 °C, operating temperature range, input voltage variation, load variation, aging (1st year), shock, and vibration

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[XO37CTECNA20M](#) [XO3003](#) [9120AC-2D2-33E212.500000](#) [9102AI-243N25E100.000000](#) [8208AC-82-18E-25.000000](#) [ASDK2-32.768KHZ-](#)
[LR-T3](#) [8008AI-72-XXE-24.545454E](#) [8004AC-13-33E-133.33000X](#) [AS-4.9152-16-SMD-TR](#) [ASFL1-48.000MHZ-LC-T](#) [632L3I004M00000](#)
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[233N25E200.000000](#) [9102AI-232H25S125.000000](#) [9102AI-133N25E200.000000](#)