



**THE DATASHEET OF
OXETDLJANF-20.000000**



OX Type

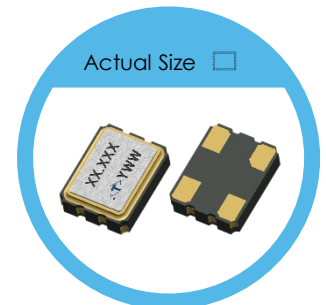
3.2 x 2.5 mm SMD Crystal Oscillator

FEATURES

- Conforms to AEC-Q200
- Typical 3.2 x 2.5 x 0.95 mm Ceramic SMD Package
- Tight Symmetry (45 to 55%) Available
- Operation Voltage: 1.8V, 2.5V, 3.3V
- Tri-State Enable/Disable

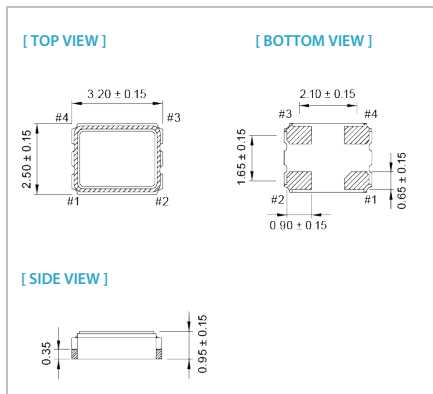
TYPICAL APPLICATION

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

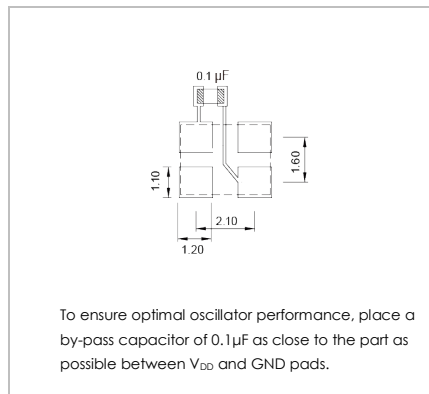


RoHS Compliant

DIMENSION (mm)



SOLDER PAD LAYOUT (mm)



PIN FUNCTION (mm)

PIN#	FUNCTION
1	Tri-State
2	GND
3	Output
4	V_{DD}

ELECTRICAL SPECIFICATION

Parameter	3.3V		2.5V		1.8V		Unit	Test Condition	
	Min.	Max.	Min.	Max.	Min.	Max.			
Supply Voltage Variation (V_{DD})	$V_{DD} - 5\%$	$V_{DD} + 5\%$	$V_{DD} - 5\%$	$V_{DD} + 5\%$	$V_{DD} - 5\%$	$V_{DD} + 5\%$	V		
Frequency Range	1.25	125	1.25	125	1.25	125	MHz		
Standard Frequency	24, 26, 30, 40						MHz	Standard frequencies are frequencies which the crystal has been designed and does not imply a stock position.	
Supply Current	At 15pF Load		15	10	7		mA		
	No Load Condition	$1.25 \text{ MHz} \leq F_o < 10 \text{ MHz}$	1.5	1.5	1.2		mA		
		$10 \text{ MHz} \leq F_o < 20 \text{ MHz}$	2	2	1.5		mA		
		$20 \text{ MHz} \leq F_o < 80 \text{ MHz}$	3	2.5	1.5		mA		
	$80 \text{ MHz} \leq F_o < 125 \text{ MHz}$	8	7	5		mA			
Duty Cycle	45	55	45	55	45	55	%		
Output Level	Output High		2.97	2.25	1.62		V		
	Output Low		0.33	0.25	0.18		V		
Transition Time: Rise/Fall Time	$1.25 \text{ MHz} \leq F_o < 10 \text{ MHz}$		3	4	5		nSec	Transition times are measured between 10% and 90% of V_{DD} , with an output load of 15 pF.	
	$10 \text{ MHz} \leq F_o < 20 \text{ MHz}$		3	3	4		nSec		
	$20 \text{ MHz} \leq F_o < 80 \text{ MHz}$		3	3	4		nSec		
	$80 \text{ MHz} \leq F_o < 125 \text{ MHz}$		3	3	4		nSec		
Startup Time			2	2	2		mSec		
Tri-State (Input to Pin 1)	Enable (High Voltage or Floating)		2.31	1.75	1.26		V		
	Disable (Low Voltage or GND)		0.99	0.75	0.54		V		
Output Loading	15		15	15			pF		
Standby Current (@-40°C to 85°C)	10		10	10			μ A		
Standby Current (@-40°C to 125°C)	20		20	20			μ A		
Period Jitter (pk-pk)	40		40	40			pSec		
RMS Phase Jitter (Integrated 12 kHz~20 MHz)	1		1	1			pSec		
Aging (@25°C, 1 st year)	± 3		± 3	± 3			ppm		
Storage Temp. Range	-55		+125	-55	+125	-55	+125	°C	

FREQ. STABILITY vs. TEMP. RANGE

Temp.(°C)	ppm		
	± 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

Note: not all combination of options are available. Other specifications may be available upon request.

Specifications subject to change without notice.

Looking for pricing, stock, or lifecycle information?

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