Dynamic Engineers Inc.
2550 Gray Falls Dr., Suite#128, Houston, TX, 77077
TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com

FXO2521BM-CMOS
2.5x 2.0 mm SMD Crystal Oscillator

Features and Benefits

Typical 2.5 x 2.0 x 0.81 mm ceramic SMD package
Operation supply voltage: 1.8V, 2.5V and 3.3V
FASTXO series, Fast delivery at any frequency
Tri-State Enable/Disable
Frequency Stability ±25ppm over -40°C to 105°C
Pb-free/RoHS compliant

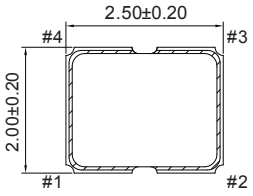
Typical Applications

Computer Peripherals
Set-top Box, HDTV
DSC, PDA

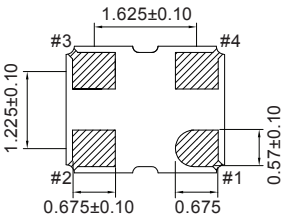
Mechanical Drawing & Pin Connections

Drawing No: MD200037-1

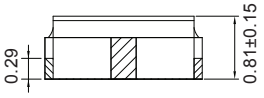
[TOP VIEW]



[BOTTOM VIEW]



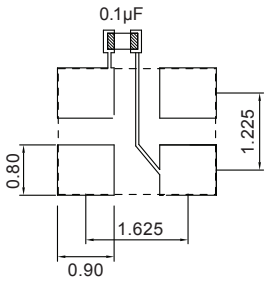
[SIDE VIEW]



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

Unit in mm
1mm = 0.0394 inches

Solder PAD Layout



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

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Specifications

Specification	Conditon	3.3V		2.5V		1.8V		Unit
		Min.	Max.	Min.	Max.	Min.	Max.	
Supply Voltage Variation		V_{DD}-5%	V_{DD}+5%	V_{DD}-5%	V_{DD}+5%	V_{DD}-5%	V_{DD}+5%	V
Frequency Range		1	200	1	200	1	125	MHz
Supply Current	15pF Loading	-	35	-	30	-	20	mA
Stand by Current	OE mode	-	20	-	20	-	20	mA
Output Load		15						pF
Output Level	Output High	0.9 V_{DD}	-	0.9 V_{DD}	-	0.9 V_{DD}	-	V
	Output Low	-	0.1 V_{DD}	-	0.1 V_{DD}	-	0.1 V_{DD}	
Transition	Rise/Fall Time	-	2	-	2	-	3	nSec
Duty Cycle		45	55	44	45	45	55	%
Start Time		-	8	-	8	-	8	mSec
Tri-State	Enable	0.7 V_{DD}	-	0.7 V_{DD}	-	0.7 V_{DD}	-	V
	Disable	-	0.3 V_{DD}	-	0.3 V_{DD}	-	0.3 V_{DD}	
RMS Phase Jitter	12KHz to 20MHz	-	1.5	-	1.5	-	1.5	pSec
Aging	@25°C 1st year	-	±3	-	±3	-	±3	ppm
Storage Temp. Range		-50°C to +125°C						°C

Note: *Transition times are measured between 10% and 90% of V_{DD} with an output load of 15pF

Frequency Stability vs. Temperature

	±15PPM	±20PPM	±25PPM	±50PPM
-20°C to +70°C	Conditional	Available	Available	Available
-40°C to +85°C	Not Available	Conditional	Available	Available
-40°C to +105°C	Not Available	Not Available	Conditional	Available

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