

FASTXO 5.0 × 3.2 mm SMD Crystal Oscillator

☼ Feature

- Typical 5.0 x 3.2 x1.2 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 85 °C
- RoHS compliant/Pb-free



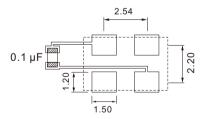
Electrical Specifications

Parameter		3.3V		2.5V		1.8V		Unit
		Min.	Max.	Min.	Max.	Min.	Max.] 01111
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		-	30	-	28	-	20	mA
Duty Cycle		45	55	45	55	45	55	%
Output Level (CMOS)	Out High(Logic"1")	2.97	-	2.25	-	1.62	-	V
	Out Low(Logic"0")		0.33	-	0.25		0.18	
Start Time		-	8	-	8	-	8	mSec
Transition Time :Rise/Fall Time		-	2	-	2	-	3	nSec
Tri-State	Output Enable	2.31	-	1.75	-	1.26	-	V
	Output Disable	-	0.99	-	0.75	-	0.54	
Stand by current(@PD mode)		-	400	-	400	-	400	uA
Stand by current(@OE mode)		-	20	-	20	-	20	mA
Output Loading		15		15		15		
RMS Phase Jitter(12KHz to 20MHz)@3.3V		-	1	-	1	-	1	pSec
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.

Dimension(mm)

Solder Pad Layout(mm)



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)	±15	±20	±25	±50
-20 ~ +70	0	0	0	0
-40 ~ +85	х	Δ	0	0
-40 ~ +105	х	х	Δ	0

o: Available Δ : Conditional X: Not available Inclusive of calibration @ 25 °C, operating temperature range, input voltage variation, load variation, aging (1st year), shock, and vibration

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