

PV-U Type Crystal Oscillator

FASTXO 5.0 x 3.2 mm SMD XO

Frequency up to 200MHz

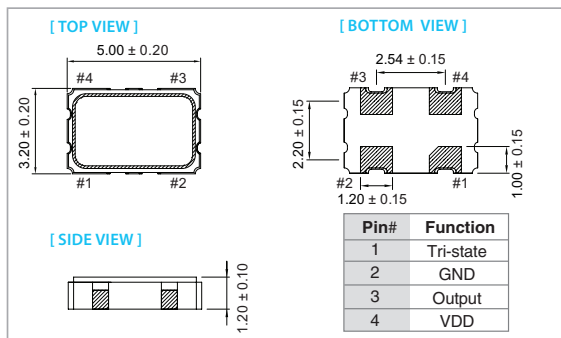
FEATURE

- Typical 5.0 x 3.2 x 1.2 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 ± 25 ppm over -40°C to 85°C
- Pb-free/RoHS compliant

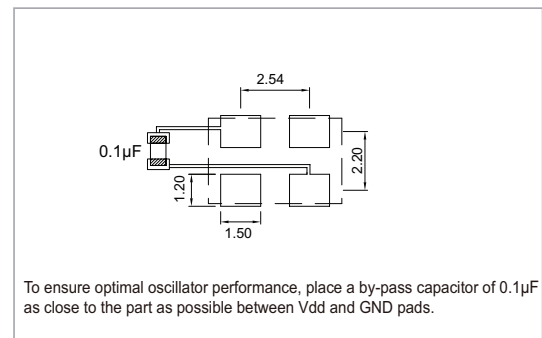
TYPICAL APPLICATION

- Mobile Phone
- WLAN, Wireless, Fiber/10G-bit Ethernet
- Notebook, PDA, DSC

DIMENSION (mm)



SOLDER PAD LAYOUT (mm)



ELECTRICAL SPECIFICATION

Parameter	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)	-	30	-	28	-	20	mA
Output Level	Output High	90%V _{DD}	-	90%V _{DD}	90%V _{DD}	-	V
	Output Low	-	10%V _{DD}	-	10%V _{DD}	-	V
Transition Time	Rise Time / Fall Time		-	2	-	3	nSec
Duty Cycle	45	55	45	55	45	55	%
Startup Time	-	8	-	8	-	8	mSec
Tri-State	Output Enable	0.7 x V _{DD}	-	0.7 x V _{DD}	0.7 x V _{DD}	-	V
	Output Disable	-	0.3 x V _{DD}	-	0.3 x V _{DD}	-	V
Stand by Current (@PD Mode)	-	400	-	400	-	400	uA
Stand by Current (@OE Mode)	-	20	-	20	-	20	mA
Output Loading	15		15		15		pf
RMS Phase Jitter (12KHz to 20MHz) @3.3V	-	1	-	1	-	1.5	pSec
Aging (@ 25°C, First Year)	-	±3	-	±3	-	±3	ppm
Storage Temp. Range	-50	+125	-50	+125	-50	+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 V_{DD}, with an output load of 15pF.

FREQ. STABILITY vs. TEMP. RANGE

Temp. (°C)	ppm	±15	±20	±25	±50
-20~+70	△	○	○	○	○
-40~+85	×	△	○	○	○
-40~+105	×	×	△	○	○

*O: Available △: Conditional X: Not available

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

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