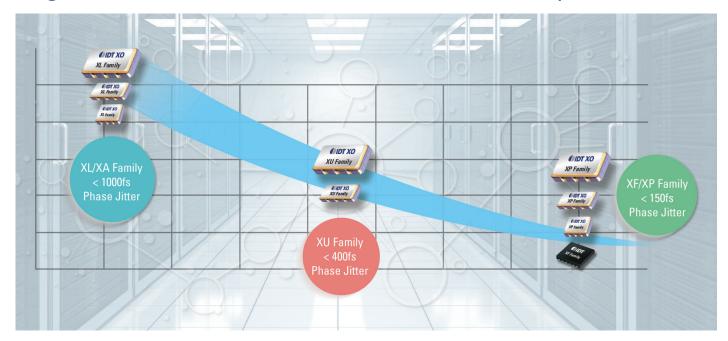


High-Performance Clock Oscillator Family



IDT's family of clock oscillators offers designers a reliable on-time solution. Short lead-time, low noise, wide frequency range, excellent temperature versus frequency performance, and very little engineering effort for design in, makes them an excellent choice over conventional technology solutions. The clock oscillator families have stabilities as tight as ± 20 ppm, a range of phase jitter options, and temperature capabilities up to ± 105 °C. These devices also offer extremely quick delivery for both standard and custom frequencies (16kHz to 2.1GHz).

ADVANTAGES

- Configurable output type
 - LVCMOS (HCMOS), LVPECL, LVDS, HCSL, and CML
- Phase jitter options
 - 1000fs, 400fs, and 150fs
- 1.8, 2.5, and 3.3VDC voltage options
- Frequency versus temperature performance options from ±20ppm to ±100ppm

APPLICATIONS

- Networking
- Industrial
- Automotive
- Cloud servers
- Storage

Configurable PLL Oscillator Family

guranic : == ccom	1			
Model	ProX0 XF & XP	XU	XL	XA (AEC-Q200)
Dankana Ontinua	2.5 x 2.0 mm		3.2 x 2.5 mm	
	3.2 x 2.5 mm	5.0 x 3.2 mm	5.0 x 3.2 mm	3.2 x 2.5 mm
Package Options	5.0 x 3.2 mm	7.0 x 5.0 mm		5.0 x 3.2 mm
	7.0 x 5.0 mm		7.0 x 5.0 mm	
Voltage Options	1.8V, 2.5V, 3.3V	1.8V, 2.5V, 3.3V	2.5V, 3.3V	2.5V, 3.3V
Phase Jitter (12 kHz to 20 MHz)	< 150fs	< 400fs	< 1000fs	< 1000fs
Outputs	LVDS, LVPECL, HCSL, LVCMOS, CML	LVDS, LVPECL, HCSL, LVCMOS	LVDS, LVPECL, LVCMOS	LVDS, LVPECL, LVCMOS
Frequency Range	15 to 2100 MHz	0.016 to 1500 MHz	0.75 to 1350 MHz	0.75 to 1350 MHz
VCX0 option	Yes (analog and I2C)	_	Yes (analog) +/-50ppm APR	_



High-Performance Clock Oscillator Family

Need to request a sample or determine an orderable part number?

Please use IDT's on-line tool for clock oscillators https://www.idt.com/customxo

Need to build a configurable part number?

Progress 8 / 8					
Temperature	Stability	OE Position Pin 1 Pin 2 Pin 5	Package		
Jitter	Voltage	Output Type I LVDS LVPECL CML HCSL HCMOS HCMOSD, 2 outputs, 180° out of phase	Frequency (MHz) 1312.5 Min: 0.75 Max: 1350		

Need to check and see if an orderable part number exists?

Submit by Part Number (Optional)

Users who wish to submit a request and generate a datasheet addendum based on a part number, may do so here. The part number must be a valid part number. An entry here will overide the selections in the General Configuration above. Leave this field blank to use the selection above.

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