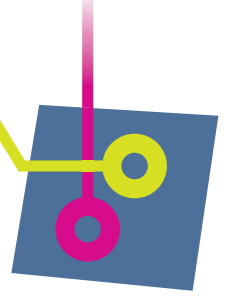

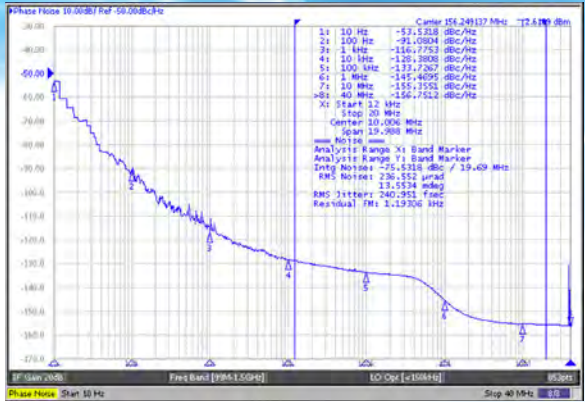


# Family of High-Performance Crystal Oscillators





## Ultra-Precision Performance Best-in-Class Delivery



### KEY FEATURES

- Available in HCMOS, LVPECL, LVDS, and HCSL outputs
- XU Family has 300fs typ. RMS phase jitter (12kHz - 20MHz), reduces overall system noise and meets next-generation networking and communications requirements
- The XL family has 750fs typ RMS Phase Jitter (12kHz - 20MHz) with extremely low cost meeting the requirements of 1G/10G Ethernet, 2G/4G/8G Fibre Channel; 1.5G/3G/6G SAS/SATA, 10G Infiniband, PCI Express® Gen1/Gen2
- Frequency Stability:  $\pm 20$ ppm,  $\pm 25$ ppm,  $\pm 50$ ppm, or  $\pm 100$ ppm
- Fast lead times for custom frequencies from 16kHz to 1.5GHz
- Industry-standard packages (3.2 x 2.5 mm, 5 x 3.2 mm, 7 x 5 mm) and pin-outs
- The XU and XL from IDT have the performance, price, and delivery to meet your design requirements



### APPLICATIONS

- Networking
- Communications
- Data I/O
- Storage
- Servers

## IDT's crystal oscillators offer designers a reliable and economical timing solution.

The XU Family of devices from IDT is a low phase noise crystal-based PLL oscillator supporting a large range of frequencies and output waveform types. These devices are available in multiple package sizes as well as temperature grades.

With a patented one-time program (OTP) allowing for infinite memory shelf life, the XU devices can be accurately programmed from 16kHz to 1500MHz with frequency resolution down to 1Hz accuracy. The configuration capability of this family of devices allows for fast delivery times for both sample and large manufacturing orders.

		
<b>Package Options</b>	5 x 3.2 mm, 7 x 5 mm	3.2 x 2.5 mm, 5 x 3.2 mm, 7 x 5 mm
<b>Voltage Options</b>	1.8V, 2.5V, 3.3V	2.5V, 3.3V
<b>Phase Jitter (12kHz - 20MHz)</b>	< 400fs	< 1ps
<b>Outputs</b>	LVDS, LVPECL, HCSL, HCMOS	LVDS, LVPECL, HCMOS
<b>Frequency Range</b>	0.016 - 1500 MHz	0.75 - 1350 MHz
<b>Delivery</b>	Samples in 2 weeks	Samples in 2 weeks