

## SiTime MEMS timing benefits

### Complete MEMS XO portfolio

- 70 fs and 200 fs jitter grades
- 2016, 2520, 3225 packages
- LVPECL, LVDS, HCSL, Low-power HCSL, FlexSwing™

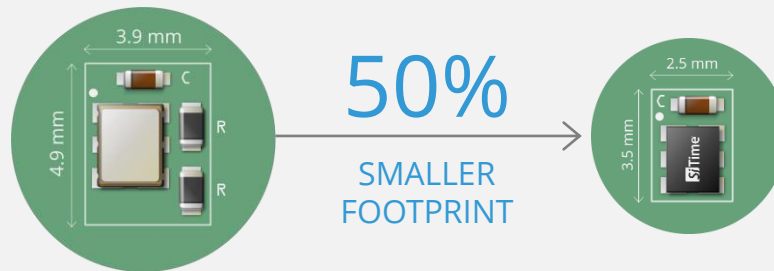
### Most robust in real world conditions

- Immunity to supply noise
- 105°C, resistant to heat
- No activity or frequency jumps

### Integrated MEMS, easy to use

- 50% smaller
- On-chip LDO reducing BOM
- No quartz reliability issues

## Smallest package and integrated resistors – 50% less area

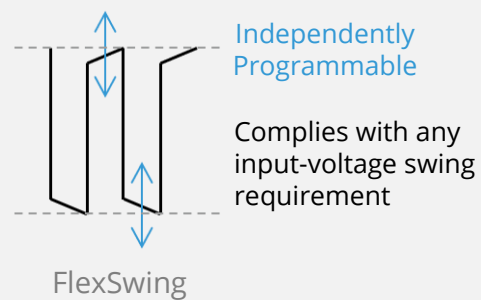
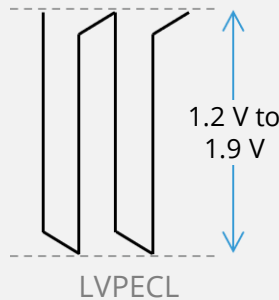


Quartz 2.5 x 2.0 mm, plus LVPECL bias resistors

SiT9501 2.0 x 1.6 mm, integrated LVPECL bias resistors

## FlexSwing delivers 30% power savings vs. LVPECL, enables chipset flexibility

Differential-voltage swing diagrams

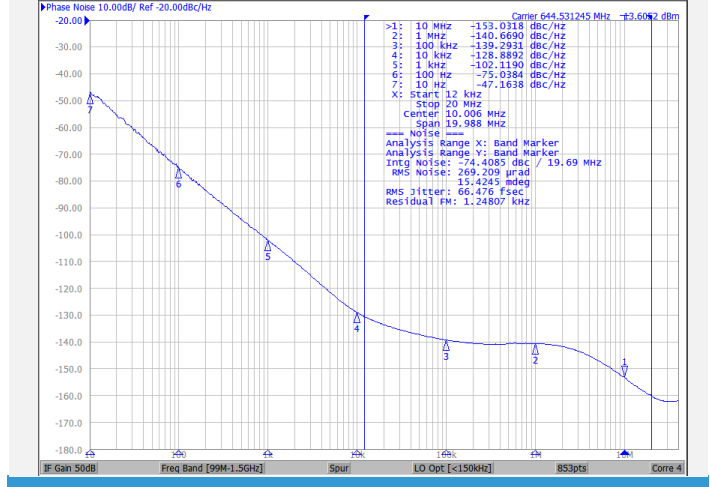
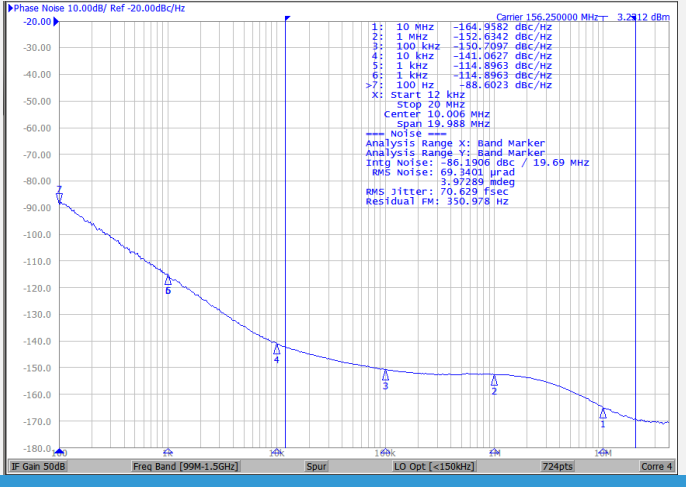


## Ultra-low jitter offering down to 70 fsec

| Applications                | Devices                     | Jitter Grade | Function                            | Key Features   |
|-----------------------------|-----------------------------|--------------|-------------------------------------|--|
| QSFP-DD, QSFP28, OSFP, QSFP | <a href="#">SiT9501</a>     | 70 fsec      | Reference clock for high-speed PHYs | 14 standard frequencies, 105°C, 2016/2520/3225 pkgs. |
|                             | <a href="#">SiT9375</a>     | 200 fsec     |                                     | 31 standard frequencies, 105°C, 2016/2520/3225 pkgs. |
|                             | <a href="#">SiT9365/6/7</a> | 230 fsec     |                                     | 1 to 725 MHz, 105°C, 3225/5032/7050 pkgs.            |

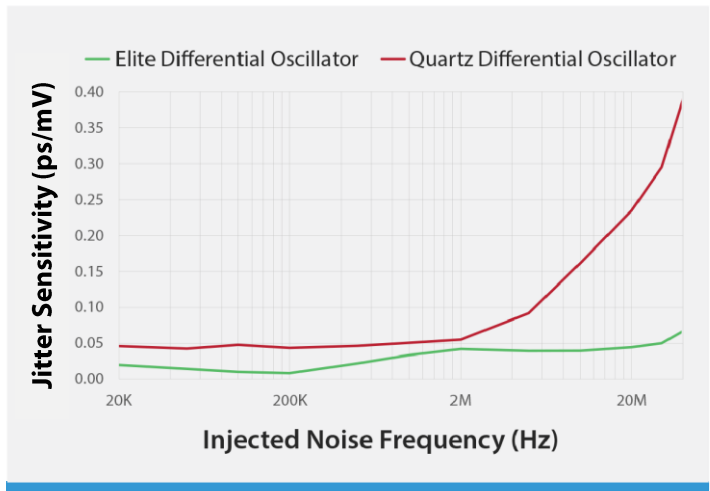
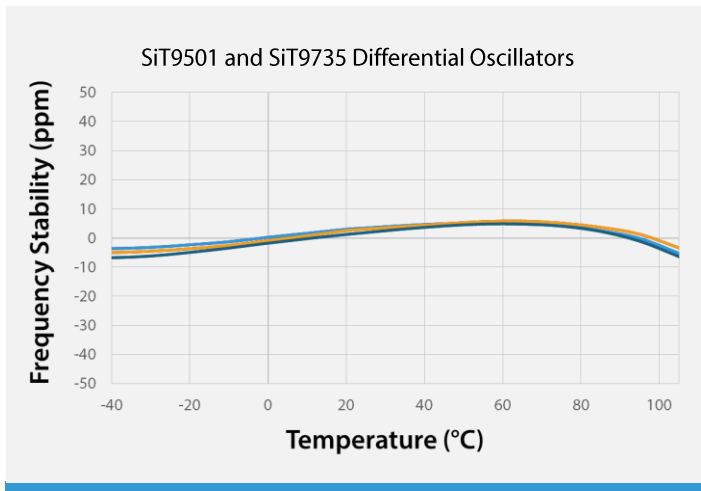
## Ultra-Low Phase Noise, 156.25 MHz

## Ultra-Low Phase Noise, 644.53125 MHz



## Excellent Stability

## Better PSNR (Power Supply Noise Rejection)



## Higher Reliability

## Smallest Packages

