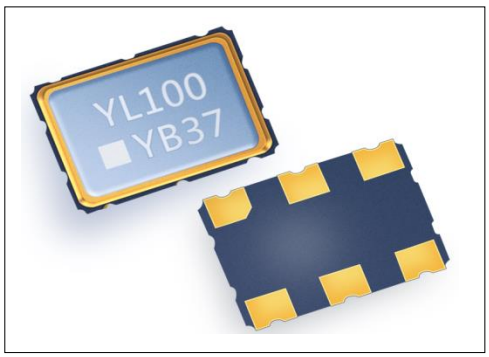
# SMD LVPECL SAW Oscillators - Differential Output

**7L Series**

## 7.0 x 5.0 x 1.6 mm




■ Features

. SAW base solution.

. 3.3V and 2.5V operation available.

. LVPECL output, output frequencies 150 MHz to 700 MHz.

. Excellent low phase noise and jitter.

. Tri-State function available.

■ Applications

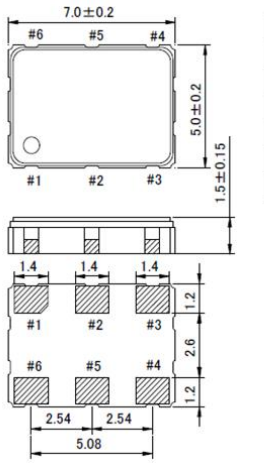
Applications : Fibre Channel, Gigabit Ethernet, Serial ATA, Serial Attached SCSI, PCI-Express, SDH / SONET.

■ Specifications

| | |
|---|---|
| Output Type | LVPECL |
| Oscillation Mode | Fundamental |
| Output Load | 50 Ω |
| Supply Voltage | 2.5 V , 3.3 V |
| Frequency range | 150 ~ 700 MHz |
| Overall Frequency Stability * | ± 100 ppm , or specify |
| Operating Temperature Range | -10 ~ + 70 ℃ , - 5 ~ + 85 ℃ , or specify |
| Storage Temperature Range | - 55 ~ + 125 ℃ |
| Voltage Vol ( Max. ) / Voh ( Min. ) | VDD - 1.62 V / VDD - 1.025 V |
| Rise ( Tr ) / Fall ( Tf ) Time ( 20 % ~ 80 % ) | 1 nS Max. |
| Supply Current | 80 mA Max. |
| Symmetry | 45 ~ 55 % |
| Start-up Time | 10 mS Max. |
| Phase Jitter ( 12 KHz ~ 20 MHz ) | 1 pS Max. |

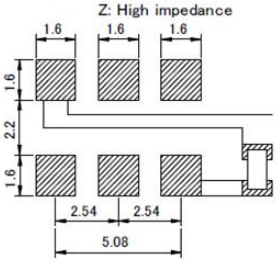
* Inclusive of frequency tolerance at 25 ℃ , variation over temperature, supply voltage variation, aging and ibration.

■ Dimensions & Land pattern (unit: mm)




| PIN | CONNECTION | |
|---|---|---|
| 1 | N.C. | |
| 2 | N.C. | |
| 3 | GND | |
| 4 | Z | OUTPUT |
| 5 | Z | C-OUTPUT |
| 6 | $V_{DD}$ | |

Z: High impedance

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