

# SMD LVPECL SO

## 5.0 x 3.2 x 1.2 mm

### CS Series



#### Features

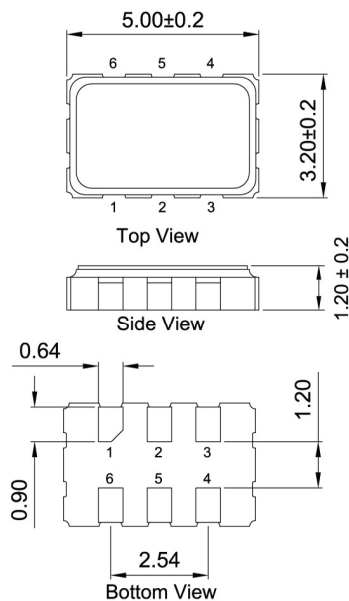
- SAW base solution.
- 3.3V and 2.5V operation available.
- LVPECL output, output frequencies 150 MHz to 700 MHz.
- Excellent low phase noise and jitter.
- Tri-State function available.
- Applications : Fibre Channel, Gigabit Ethernet, Serial ATA, Serial Attached SCSI, PCI-Express, SDH / SONET.
- RoHS Compliant / Pb Free.

#### Electrical Specifications

| Item / Type                                    | CS                                         |
|------------------------------------------------|--------------------------------------------|
| Output Type                                    | LVPECL                                     |
| Output Load                                    | 50 $\Omega$ to VDD - 2 V                   |
| Oscillation Mode                               | Fundamental                                |
| Supply Voltage                                 | 2.5 V , 3.3 V                              |
| Frequency Range                                | 150 ~ 700 MHz                              |
| Overall Frequency Stability *                  | $\pm 100$ ppm , or specify                 |
| Operating Temperature Range                    | -10 ~ + 70 $^{\circ}\text{C}$ , or specify |
| Storage Temperature Range                      | - 55 ~ + 125 $^{\circ}\text{C}$            |
| 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  $^{\circ}\text{C}$ , variation over temperature, supply voltage variation, aging and vibration.

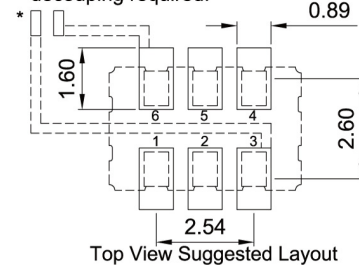
#### Dimensions



#### PAD FUNCTION:

- 1: ENABLE CONTROL or NC
- 2: ENABLE CONTROL or NC
- 3: GND
- 4: OUT
- 5:  $\overline{\text{OUT}}$
- 6: VDD

\* :External high frequency power supply decoupling required.



Units: mm