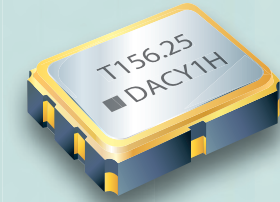


# SMD LVPECL Crystal Oscillators - Differential Output

## 3.2 x 2.5 x 0.95 mm DA Series



### Features

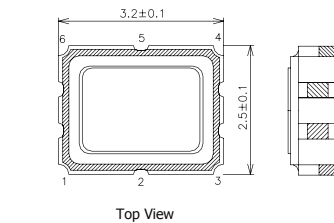
- Fundamental solution.
- 3.3V and 2.5V operation available.
- LVPECL output, output frequencies 25 MHz to 200 MHz.
- Excellent low phase noise and jitter.
- Tri-state function available.
- Applications : Fibre Channel, Gigabit Ethernet, Serial ATA, Serial Attached SCSI, PCI-Express, SDH/SONET.
- RoHS compliant / Pb Free.

### Electrical Specifications

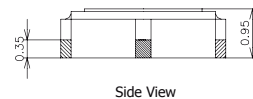
Item / Type	DA
Output Type	LVPECL
Output Load	50 $\Omega$
Oscillation Mode	Fundamental
Supply Voltage (VDD)	2.5 V , 3.3 V
Frequency Range	25 ~ 200 MHz
Overall Frequency Stability *	$\pm 50$ ppm , or specify
Operating Temperature Range	-10 ~ +70 $^{\circ}\text{C}$ , -40 ~ +85 $^{\circ}\text{C}$ , or specify
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.

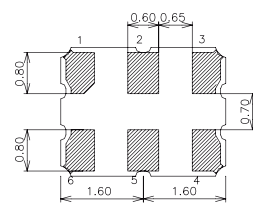
### Dimensions



Top View



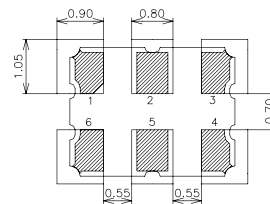
Side View



Bottom View

#### PAD FUNCTION:

- 1: ENABLE CONTROL or NC
- 2: ENABLE CONTROL or NC
- 3: GND
- 4: OUT
- 5: OUTN
- 6: VDD



Top View Suggested Layout

Units: mm