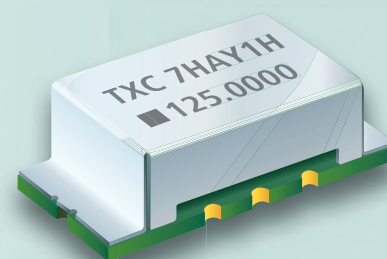


SMD Voltage Controlled Crystal Oscillators 14.0 x 9.0 x 5.4 mm 7H Series

Features

- Voltage Controlled Crystal Oscillator (VCXO).
- Standard 14.0 x 9.0 mm PCB Package.
- Meet Pb free high temperature SMT reflow soldering profile.
- Various CMOS / LVPECL / LVDS output.
- Excellent low phase noise and jitter.
- Tri-State function available.
- Applications : Fibre Channel, Gigabit Ethernet, Serial ATA, Serial Attached SCSI, PCI-Express, SDH / SONET, Base Stations.
- RoHS Compliant / Pb Free.

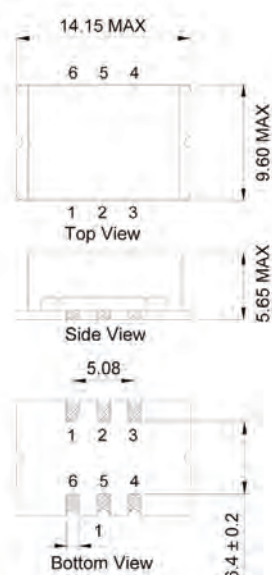


Electrical Specifications

Item / Type	7H		
Output Type	CMOS	LVPECL	LVDS
Output Load	15 pF or specify	50 Ω	100 Ω
Oscillation Mode	Fundamental		
Supply Voltage (VDD)	3.3 V, 5 V	3.3 V	3.3 V
Frequency Range	1 ~ 200 MHz	50 ~ 700 MHz	50 ~ 700 MHz
Operating Temperature Range	-10 ~ + 70 $^{\circ}\text{C}$, - 40 ~ + 85 $^{\circ}\text{C}$, or specify		
Storage Temperature Range	- 55 ~ + 125 $^{\circ}\text{C}$		
Rise (Tr) / Fall (Tf) Time (20 % ~ 80 %)	5 nS Max.	1 nS Max.	1 nS Max.
Voltage Vol(Max.)/Voh(Min.)	0.1V / 0.9V	1.62V / 1.025V	0.9V / 1.6V
Supply Current	10 mA Max.	80 mA	80 mA
Symmetry	45 % ~ 55 %		
Start-up Time	10 mS Max.		
Absolute Pulling Range(APR)*	± 50 ppm, ± 100 ppm Min. or specify		
Norminal Control Voltage	0.5 VDD		
Control Voltage Range	0 ~ VDD		
Linearity	10 mS Max.		
Phase Jitter (12 KHz ~ 20 MHz)	1 pS Max.		

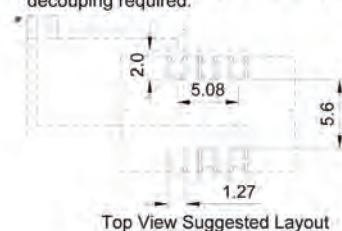
* APR=(Pull Range) - (Frequency tolerance at 25 $^{\circ}\text{C}$, variation over temperature, supply voltage variation, and aging.)

Dimensions



PAD FUNCTION:
1: CONTROL VOLTAGE
2: ENABLE CONTROL or NC
3: GND
4: OUT
5: OUTN or NC
6: VDD

*:External high frequency power supply decoupling required.



Units: mm