



Clock Oscillators

T7000 Series

Ceramic, SMD



Features:

- ◆ Smallest Oscillator
- ◆ Low Current Draw

- ◆ 2.0 x 1.6 x 0.65 mm
- ◆ Tri-State Enable

Parameter	Unit	Min.	Max.
Frequency Range	MHz	1.5	50.00
Frequency Stability			
-10 to 60°C	ppm	±20, ±25, ±50	
-20 to 70°C	ppm	±25, ±50	
-40 to 85°C	ppm	±25, ±50	
Storage Temperature Range	°C	-55	+125
Voltage	V	1.8, 2.8, 3.3	±10%
Current Consumption	µA	-	10
Output Waveform			CMOS
Output Load	pF	-	15
Output Voltage Logic High (V _{OH})	V	90%	-
Output Voltage Logic Low (V _{OL})	V	-	10%
Transition Time (Rise and Fall)	nSec	-	50
Duty Cycle			45/55% standard
Tri-State			Pad 1
Enable	V	0.7	-
Disable	V	-	0.3
Start Up Time	mSec	-	2
Phase Jitter (Integrated 12 kHz-20 MHz)	pSec	-	1
Period Jitter: Absolute	pSec	-	40

Frequency Stability is inclusive of Operating Temperature Range, Supply Voltage, Aging, Current and Load. Current Consumption for 1.8 V is 70 µA; 2.5 V is 8 µA; 3.3 V is 10 µA.

CRYSTAL OSCILLATOR: T7000 Series

T7000 Package

Measurements: Inches (mm)
All tolerances: ±0.008 (±0.2)

Recommended Solder Pattern

PAD	Function	PAD	Function
1	Tri-State or NC	2	Ground
3	Output	4	V _{DD}

Environmental	
Terminal Material	W
Terminal Plating	Ni-AU
REACH Compliant	Yes
RoHS Compliant	Yes
RoHS Exemptions	No
Re-flow Temp. Max.	260°C
MSL	1